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G3/31 26943

NASA-CR-128794-vol-5) RESULTS OF TESTS
CA12 AND IA5 IN THE AMES RESEARCH CENTER
UNITARY PLAN WIND TUNNELS ON AN
0.030-SCALE MODEL OF THE SPACE (Chrysler
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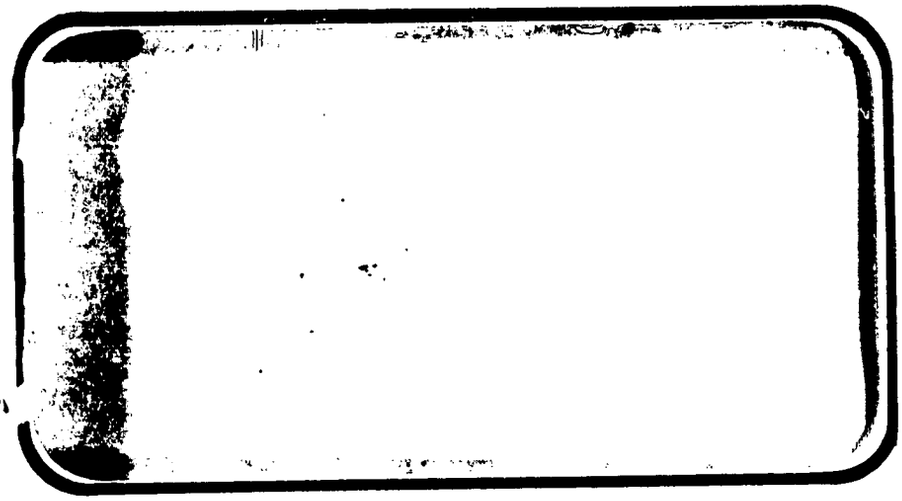

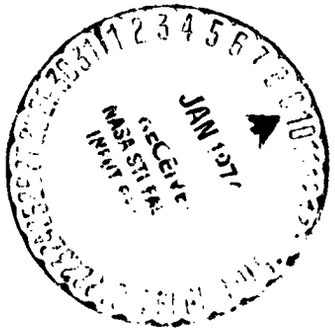

SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services

SPACE DIVISION CHRYSLER CORPORATION

October, 1973

DMS-DR-2032
NASA CR-128,794

VOLUME 5 of 18

RESULTS OF TESTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS

By

R. H. Spangler
Rockwell International

Prepared under NASA Contract Number NAS9-13247

By

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Chrysler Corporation Space Division
New Orleans, Louisiana 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WING TUNNEL TEST SPECIFICS:

Test Numbers:	ARC 11-707 (A) ARC 97-707 (B) ARC 87-707 (C)
NASA Series Numbers:	IA9A, B, C and OA12A, C
Test Date:	2 April - 17 May, 1973

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RESULTS OF TESTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS

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ABSTRACT

Tests were conducted in the NASA/ARC Unitary Plan Wind Tunnels during April and May 1973, on an 0.030-scale replica of the Space Shuttle Vehicle Configuration 2A. Aerodynamic loads data were obtained at Mach numbers from 0.6 to 3.5.

The investigation included Tests IA9A, B and C on the integrated (launch) configuration and Tests OA12A and C on the isolated orbiter (entry configuration). The integrated vehicle was tested at angles of attack and sideslip from -8 degrees to +8 degrees. The isolated orbiter was tested at angles of attack from -15 degrees to +40 degrees and angles of sideslip from -10 degrees to +10 degrees as dictated by trajectory considerations. The effects of orbiter/external tank incidence angle and deflected control surfaces on aerodynamic loads were also investigated.

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TABLE OF CONTENTS

	Page
ABSTRACT	iii
INDEX OF MODEL FIGURES	[illegible]
INDEX OF DATA FIGURES	3
INTRODUCTION	1[illegible]
NOMENCLATURE	22
CONFIGURATIONS INVESTIGATED	26
TEST FACILITIES DESCRIPTION	29
DATA REDUCTION	30
TABLES	
I TEST CONDITIONS	31
II DATA SET COLLATIONS	32
III MODEL COMPONENT DIMENSIONAL DATA	44
IV PRESSURE ORIFICE LOCATIONS	
a. Orbiter Body	55
b. Orbiter Base, Body Flap Lower Surface, and Vertical Tail	56
c. Orbiter Wing	57
d. External Tank	58
e. Left SRM	59
FIGURES	
MODEL	60
DATA	66
APPENDIX - TABULATED SOURCE DATA	

INDEX OF MODEL FIGURES

Figure	Title	Page
1.	Axis Systems.	60
2.	Model Sketches.	
	a. Orbiter, O_{2A}	61
	b. SRM, S_2, and External Tank, T_9	62
	c. Integrated Vehicle	63
3.	Model Installation Photographs.	
	a. Integrated (Launch) Vehicle Mounted in the ARC 9 x 7 Ft. Tunnel	64
	b. Isolated Orbiter (Entry Configuration) Mounted in the ARC 8 x 7 Ft. Tunnel	65

INDEX OF DATA FIGURES

TITLE	TYPE OF PLOT	PARAMETERS i_o	α	β	δ_R	CONDITIONS VARYING	PAGES
VOLUME 4							
Test IA9A							
Longitudinal Distribution of Orbiter Fuselage Pressures	CP vs X/LB	1.5	A	0	0	PHI, MACH, ALPHA	1-24
		0.5	A	0	0		25-54
		-1.2	A	0	0		55-78
		0.5	-8	E	0	PHI, MACH, BETA	79-102
		0.5	-4	E	0		103-126
		0.5	0	E	0		127-156
		0.5	4	E	0		157-180
		0.5	8	E	0		181-204
		0.5	0	E	-5		205-216
		0.5	0	E	-10		217-228
		0.5	0	E	-15		229-240
Longitudinal Distribution of External Tank Pressures	CP vs X/LT	1.5	A	0	0	PHI, MACH, ALPHA	241-264
		0.5	A	0	0		265-294
		-1.2	A	0	0		295-318

INDEX OF DATA FIGURES (CONTINUED)

TITLE	TYPE OF PLOT	PARAMETERS i_o	α	β	δ_R	CONDITIONS VARYING	PAGES
Longitudinal Distribution of External Tank Pressures	CP vs X/LT	0.5	-8	E	0	PHI, MACH, BETA	319-342
		0.5	-4	E	0		343-366
		0.5	0	E	0		367-396
		0.5	4	E	0		397-420
		0.5	8	E	0		421-444
Longitudinal Distribution of SRM Booster Pressures	CP vs X/LS	1.5	A	0	0	PHI, MACH, ALPHA	445-460
		0.5	A	0	0		461-480
		-1.2	A	0	0		481-496
		0.5	-8	E	0	PHI, MACH, BETA	497-512
		0.5	-4	E	0		513-528
		0.5	0	E	0		529-548
		0.5	4	E	0		549-564
		0.5	8	E	0		565-580
Chordwise Distribution of Upper and Lower Surface Wing Pressures	CP vs X/CW	1.5	A	0	0	Y/BW, MACH, ALPHA	581-596
		0.5	A	0	0		597-616
		-1.2	A	0	0		617-632
		0.5	-8	E	0	Y/BW, MACH, BETA	633-648

INDEX OF DATA FIGURES (CONTINUED)

TITLE	TYPE OF PLOT	PARAMETERS io	α	β	δ_R	CONDITIONS VARYING	PAGES
Chordwise Distribution of Upper and Lower Surface Wing Pressures	CP vs X/CW	0.5	-4	E	0	Y/BW, MACH, BETA	649-664
		0.5	0	E	0		665-684
		0.5	4	E	0		685-700
		0.5	8	E	0		701-716
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV	0.5	A	0	0	Z/BV, MACH, ALPHA	717-736
		0.5	-8	E	0	Z/BV, MACH, BETA	737-752
		0.5	-4	E	0		753-768
		0.5	0	E	0		769-788
		0.5	4	E	0		789-804
		0.5	8	E	0		805-820
		0.5	-8	E	-5		821-828
		0.5	0	E	-5		829-836
		0.5	8	E	-5		837-844
		0.5	-8	E	-10		845-852
		0.5	0	E	-10		853-860
		0.5	8	E	-10		861-868
		0.5	-8	E	-15		869-876

INDEX OF DATA FIGURES (CONTINUED)

TITLE	TYPE OF PLOT	PARAMETERS i_o	α	β	δ_R	CONDITIONS VARYING	PAGES
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV	0.5	0	E	-15	Z/BV, MACH, BETA	877-884
	↓	0.5	8	E	-15	Z/BV, MACH, BETA	885-892
Orbiter Base Pressures	CP vs ALPHA	0.5	B	0	0	MACH, ALPHA	893-902
Orbiter Base Pressures	CP vs BETA	0.5	0	F	0	MACH, BETA	903-912
Upper MPS Nozzle Pressures	CP vs ALPHA	0.5	B	0	0	PHI, MACH, X/LNP	913-917
Upper MPS Nozzle Pressures	CP vs BETA	0.5	0	F	0	PHI, MACH, X/LNP	918-922
OMS Nozzle Pressures	CP vs ALPHA	0.5	B	0	0	PHI, MACH X/LNM	923-927
OMS Nozzle Pressures	CP vs BETA	0.5	0	F	0	PHI, MACH X/LNM	928-932
SRM Booster Base Pressures	CP vs ALPHA	0.5	B	0	0	PHI, MACH, X/LS	933-937
SRM Booster Base Pressures	CP vs BETA	0.5	0	F	0	PHI, MACH, X/LS	938-942
External Tank Base Pressures	CP vs ALPHA	0.5	B	0	0	PHI, MACH, X/LT	943-947
External Tank Base Pressures	CP vs BETA	0.5	0	F	0	PHI, MACH, X/LT	948-952
VOLUME 5							
Test IA9B							
Longitudinal Distribution of Orbiter Fuselage Pressures	CP vs X/LB	0.5	A	0	0	PHI, MACH, ALPHA	1-12
	↓	0.5	8	I	0	PHI, MACH, BETA	13-24
↓		0.5	4	I	0	↓	25-36

INDEX OF DATA FIGURES (CONTINUED)

TITLE	TYPE OF PLOT	PARAMETERS io	α	β	δ_R	CONDITIONS VARYING	PAGES
Longitudinal Distribution of Orbiter Fuselage Pressures	CP vs X/LB	0.5	0	I	0	PHI, MACH, BETA	37-48
		0.5	-4	I	0		49-60
		0.5	-8	I	0		61-72
		0.5	0	E	-15		73-84
		0.5	0	E	-10		85-96
		0.5	0	E	15		97-108
Longitudinal Distribution of External Tank Pressures	CP vs X/LT	0.5	4	0	0	PHI, MACH, ALPHA	109-120
		0.5	8	I	0	PHI, MACH, BETA	121-132
		0.5	4	I	0		133-144
		0.5	0	I	0		145-156
		0.5	-4	I	0		157-168
		0.5	-8	I	0		169-180
Longitudinal Distribution of SRM Booster Pressures	CP vs X/LS	0.5	4	0	0	PHI, MACH, ALPHA	181-188
		0.5	8	I	0	PHI, MACH, ALPHA	189-196
		0.5	4	I	0	PHI, MACH, BETA	197-204
		0.5	0	I	0	PHI, MACH, BETA	205-212

INDEX OF DATA FIGURES (CONTINUED)

TITLE	TYPE OF PLOT	PARAMETERS i_o	α	β	δ_R	CONDITIONS VARYING	PAGES
Longitudinal Distribution of SRM Booster Pressures	CP vs X/LS	0.5	-4	I	0	PHI, MACH, BETA	213-220
		0.5	-8	I	0	PHI, MACH, BETA	221-228
Chordwise Distribution of Upper and Lower Surface Wing Pressures	CP vs X/CW	0.5	A	0	0	Y/BW, MACH, ALPHA	229-236
		0.5	8	I	0	Y/BW, MACH, BETA	237-244
		0.5	4	I	0		245-252
		0.5	0	I	0		253-260
		0.5	-4	I	0		261-268
		0.5	-8	I	0		269-276
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV	0.5	A	0	0	Z/BV, MACH, ALPHA	277-284
		0.5	8	I	0	Z/BV, MACH, BETA	285-292
		0.5	4	I	0		293-300
		0.5	0	I	0		301-308
		0.5	-4	I	0		309-316
		0.5	-8	I	0		317-324
		0.5	-8	E	-15		325-332
		0.5	0	E	-15		333-340

INDEX OF DATA FIGURES (CONTINUED)

TITLE	TYPE OF PLOT	PARAMETERS i_o	α	β	δ_R	CONDITIONS VARYING	PAGES
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV	0.5	8	E	-15	Z/BV, MACH, BETA	341-348
		0.5	-8	E	-10		349-356
		0.5	0	E	-10		357-364
		0.5	8	E	-10		365-372
		0.5	-8	E	15		373-380
		0.5	0	E	15		381-388
		0.5	8	E	15		389-396
Orbiter Base Pressures	CP vs ALPHA	0.5	B	0	0	MACH, ALPHA	397-400
Orbiter Base Pressures	CP vs BETA	0.5	0	G	0	MACH, BETA	401-404
Upper MPS Nozzle Pressures	CP vs ALPHA	0.5	B	0	0	PHI, MACH, X/LNP	405-406
Upper MPS Nozzle Pressures	CP vs BETA	0.5	0	G	0	PHI, MACH, X/LNP	407-408
OMS Nozzle Pressures	CP vs ALPHA	0.5	B	0	0	PHI, MACH, X/LNM	409-410
OMS Nozzle Pressures	CP vs BETA	0.5	0	G	0	PHI, MACH, X/LNM	411-412
SRM Booster Base Pressures	CP vs ALPHA	0.5	B	0	0	PHI, MACH, X/LS	413-414
SRM Booster Base Pressures	CP vs BETA	0.5	0	G	0	PHI, MACH, X/LS	415-416
External Tank Base Pressures	CP vs ALPHA	0.5	B	0	0	PHI, MACH, X/LT	417-418
External Tank Base Pressures	CP vs BETA	0.5	0	G	0	PHI, MACH, X/LT	419-420

INDEX OF DATA FIGURES (CONTINUED)

TITLE	TYPE OF PLOT	PARAMETERS i_o	α	β	δ_R	CONDITIONS VARYING	PAGES
Test IA9C							
Longitudinal Distribution of Orbiter Fuselage Pressures	CP vs X/LB	0.5	A	0	0	PHI, MACH, ALPHA	421-438
		0.5	-8	E	0	PHI, MACH, BETA	439-456
		0.5	-4	E	0		457-474
		0.5	0	E	0		475-492
		0.5	4	E	0		493-510
		0.5	8	E	0		511-528
		0.5	0	E	-15		529-546
		0.5	0	E	-10		547-564
Longitudinal Distribution of External Tank Pressures	CP vs X/LT	0.5	A	0	0	PHI, MACH, ALPHA	565-582
		0.5	-8	E	0	PHI, MACH, BETA	583-600
		0.5	-4	E	0		601-618
		0.5	0	E	0		619-636
		0.5	4	E	0		637-654
		0.5	8	E	0		655-672

INDEX OF DATA FIGURES (CONTINUED)

TITLE	TYPE OF PLOT	PARAMETERS i_o	α	β	δ_R	CONDITIONS VARYING	PAGES
Longitudinal Distribution of SRM Booster Pressures	CP vs X/LS	0.5	A	0	0	PHI, MACH, ALPHA	673-684
		0.5	-8	E	0	PHI, MACH, BETA	685-696
		0.5	-4	E	0		697-708
		0.5	0	E	0		709-720
		0.5	4	E	0		721-732
		0.5	8	E	0		733-744
Chordwise Distribution of Upper and Lower Surface Wing Pressures	CP vs X/CW	0.5	A	0	0	Y/BW, MACH, ALPHA	745-756
		0.5	-8	E	0	Y/BW, MACH, BETA	757-767
		0.5	-4	E	0		768-780
		0.5	0	E	0		781-792
		0.5	4	E	0		793-804
		0.5	8	E	0		805-816
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV	0.5	A	0	0	Z/BV, MACH, ALPHA	817-828
		0.5	-8	E	0	Z/BV, MACH, BETA	829-840
		0.5	-4	E	0		841-852
		0.5	0	E	0		853-864
		0.5	4	E	0		865-876

INDEX OF DATA FIGURES (CONTINUED)

TITLE	TYPE OF PLOT	PARAMETERS i_o	α	β	δ_R	CONDITIONS VARYING	PAGES
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV	0.5	8	E	0	Z/BV, MACH, BETA	877-888
		0.5	-8	E	-15		889-900
		0.5	0	E	-15		901-912
		0.5	8	E	-15		913-924
		0.5	-8	E	-10		925-936
		0.5	0	E	-10		937-948
		0.5	8	E	-10		949-960
Orbiter Base Pressures	CP vs ALPHA	0.5	B	0	0	MACH, ALPHA	961-966
Orbiter Base Pressures	CP vs BETA	0.5	0	H	0	MACH, BETA	967-972
Upper MPS Nozzle Pressures	CP vs ALPHA	0.5	B	0	0	PHI, MACH, X/LNP	973-975
Upper MPS Nozzle Pressures	CP vs BETA	0.5	0	H	0	PHI, MACH, X/LNP	976-978
OMS Nozzle Pressures	CP vs ALPHA	0.5	B	C	0	PHI, MACH, X/LNM	979-981
OMS Nozzle Pressures	CP vs BETA	0.5	0	H	0	PHI, MACH, X/LNM	982-984
SRM Booster Base Pressures	CP vs ALPHA	0.5	B	0	0	PHI, MACH, X/LS	985-987
SRM Booster Base Pressures	CP vs BETA	0.5	0	H	0	PHI, MACH, X/LS	988-990
External Tank Base Pressures	CP vs ALPHA	0.5	B	0	0	PHI, MACH, X/LT	991-993
External Tank Base Pressures	CP vs BETA	0.5	0	H	0	PHI, MACH, X/LT	994-996

INDEX OF DATA FIGURES (CONTINUED)

TITLE	TYPE OF PLOT	PARAMETERS α	β	δ_e	δ_R	δ_{RF}	CONDITIONS VARYING	PAGES
VOLUME 6								
Test OA12A								
Longitudinal Distribution of Orbiter Fuselage Pressure	CP vs X/LB	C	0	0	0	0	PHI, MACH, ALPHA	1-24
		0	J	0	0	0	PHI, MACH, BETA	25-36
		10	J	0	0	0		37-48
		20	J	0	0	0		49-60
		0	K	0	-10	0		61-78
		0	K	0	-20	0		79-96
		0	L	10	0	0		97-108
		0	K	-10	0	0		109-126
		0	K	-20	0	0		127-144
		0	K	0	0	40		145-162
Chordwise Distribution of Upper and Lower Surface Wing Pressures	CP vs X/CW	C	0	0	0	0	Y/BW, MACH, ALPHA	163-178
		0	J	0	0	0	Y/BW, MACH, BETA	179-186
		10	J	0	0	0		187-194
		20	J	0	0	0		195-202
		0	L	10	0	0		203-210

INDEX OF DATA FIGURES (CONTINUED)

TITLE	TYPE OF PLOT	PARAMETERS α	β	δ_e	δ_R	δ_{RF}	CONDITIONS VARYING	PAGES
Chordwise Distribution of Upper and Lower Surface Wing Pressures	CP vs X/CW	10	L	10	0	0	Y/BW, MACH, BETA	211-218
		20	L	10	0	0		219-226
		0	K	-10	0	0		227-238
		10	K	-10	0	0		239-250
		20	K	-10	0	0		251-262
		0	K	-20	0	0		263-274
		10	K	-20	0	0		275-286
		20	K	-20	0	0		287-298
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV	C	0	0	0	0	Z/BV, MACH, ALPHA	299-314
		0	J	0	0	0	Z/BV, MACH, BETA	315-322
		10	J	0	0	0		323-330
		20	J	0	0	0		331-338
		0	K	0	-10	0		339-350
		10	K	0	-10	0		351-362
		20	K	0	-10	0		363-374
		0	K	0	-20	0		375-386

INDEX OF DATA FIGURES (CONTINUED)

TITLE	TYPE OF PLOT	PARAMETERS α	β	δ_e	δ_R	δ_{RF}	CONDITIONS VARYING	PAGES
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV	10	K	0	-20	0	Z/BV, MACH, BETA	387-398
		20	K	0	-20	0		399-410
		0	K	0	0	40		411-422
		10	K	0	0	40		423-434
		20	K	0	0	40		435-446
Orbiter Base Pressures	CP vs ALPHA	C	0	0	0	0	MACH, ALPHA	447-450
Orbiter Base Pressures	CP vs BETA	0	J	0	0	0	MACH, BETA	451-454
Upper MPS Nozzle Pressures	CP vs ALPHA	C	0	0	0	0	PHI, MACH, X/LNP	455-456
Upper MPS Nozzle Pressures	CP vs BETA	0	J	0	0	0	PHI, MACH, X/LNP	457-458
OMS Nozzle Pressures	CP vs ALPHA	C	0	0	0	0	PHI, MACH, X/LNM	459-460
OMS Nozzle Pressures	CP vs BETA	0	J	0	0	0	PHI, MACH, X/LNM	461-462
Test OA12C								
Longitudinal Distribution of Orbiter Fuselage Pressures	CP vs X/LB	D	0	0	0	40	PHI, MACH, ALPHA	463-480
		0	M	0	-20	40	PHI, MACH, BETA	481-498
		10	M	0	-20	40		499-516
		20	M	0	-20	40		517-534

INDEX OF DATA FIGURES (CONTINUED)

TITLE	TYPE OF PLOT	PARAMETERS α	β	δ_e	δ_R	δ_{RF}	CONDITIONS VARYING	PAGES
Longitudinal Distribution of Orbiter Fuselage Pressures	CP vs X/LB	30	M	0	0	40	PHI, MACH, BETA	535-552
		0	M	10	0	40		553-570
		0	M	-20	0	40		571-588
		0	M	-40	0	40		589-606
Chordwise Distribution of Upper and Lower Surface Wing Pressures	CP vs X/CW	D	0	0	0	40	Y/BW, MACH, ALPHA	607-618
		0	M	0	-20	40	Y/BW, MACH, BETA	619-630
		10	M	0	-20	40		631-642
		20	M	0	-20	40		643-654
		30	M	0	0	40		655-666
		0	M	10	0	40		667-678
		10	M	10	0	40		679-690
		20	M	10	0	40		691-702
		0	M	-20	0	40		703-714
		10	M	-20	0	40		715-726
		20	M	-20	0	40		727-738
		0	M	-40	0	40		739-750

INDEX OF DATA FIGURES (CONTINUED)

TITLE	TYPE OF PLOT	PARAMETERS α	β	δ_e	δ_R	δ_{RF}	CONDITIONS VARYING	PAGES
Chordwise Distribution of Upper and Lower Surface Wing Pressures	CP vs X/CW	10	M	-40	0	40	Y/BW, MACH, BETA	751-762
		20	M	-40	0	40	Y/BW, MACH, BETA	763-774
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV	D	0	0	0	40	Z/BV, MACH, ALPHA	775-786
		0	M	0	-20	40	Z/BV, MACH, BETA	787-798
		10	M	0	-20	40		799-810
		20	M	0	-20	40		811-822
		30	M	0	0	40		823-834
		30	M	0	-20	40		835-846
Orbiter Base Pressures	CP vs ALPHA	D	0	0	0	40	MACH, ALPHA	847-850
Orbiter Base Pressures	CP vs BETA	0	M	0	-20	40	MACH, BETA	851-854
Upper MPS Nozzle Pressures	CP vs ALPHA	D	0	0	0	40	PHI, MACH, X/LNP	855-856
Upper MPS Nozzle Pressures	CP vs BETA	0	M	0	-20	40	PHI, MACH, X/LNP	857-858
OMS Nozzle Pressures	CP vs ALPHA	D	0	0	0	40	PHI, MACH, X/LNM	859-860
OMS Nozzle Pressures	CP vs BETA	0	M	0	-20	40	PHI, MACH, X/LNM	861-862

PARAMETER SCHEDULES:

ALPHA

A) -4, 0, 4, 8 Degrees

B) -8, -6, -4, -2, 0, 2, 4, 6, 8 Degrees

C) -4, 0, 5, 10, 15, 20, 22.5 Degrees

D) 0, 5, 10, 15, 20 Degrees

BETA

E) -4, 0, 4, 8 or -4, 2, 4, 8 Degrees

F) -8, -6, -4, -2, 0, 2, 4, 6, 8 Degrees

G) -7, -5, 3, 5, 7, 9 Degrees

H) -8, -6, -4, -2, 2, 4, 6, 8 Degrees

I) -5, 5, 7, 9 or -6, 4, 6, 8 Degrees

J) -10, -5, 5, 10 Degrees

K) -8, -4, 0, 4, 8 Degrees

L) -10, 0, 10 Degrees

M) -6, -3, 0, 3, 6 Degrees

INTRODUCTION

The 0.030-scale Aero Loads Space Shuttle model was tested in the Unitary Plan Wind Tunnels at ARC starting April 2, and continuing through May 17, 1973 as follows:

IA9A	11-foot Transonic	April 2 to April 14, 1973
OA12A	11-foot Transonic	April 16 to April 29, 1973
IA9C	8x7-foot Supersonic	April 23 to May 1, 1973
OA12C	8x7-foot Supersonic	May 2 to May 8, 1973
IA9B	9x7-foot Supersonic	May 9 to May 17, 1973

The testing was conducted in all three legs of the Unitary Plan Wind Tunnels to obtain a Mach number range from 0.6 to 3.5. Aerodynamic loads data were obtained for the ascent and entry configurations. The effects of control surface deflections were also investigated.

This report consists of 3 volumes of force data and 15 volumes of pressure data for a total of 18 volumes arranged in the following manner:

VOLUME NO.	CONTENTS
1	IA9A force data
2	IA9B and IA9C force data
3	OA12A and OA12C force data
4	IA9A plotted pressure data
5	IA9B and IA9C plotted pressure data
6	OA12A and OA12C plotted pressure data
7	IA9A tabulated pressure data (a) orbiter fuselage (b) orbiter base (c) upper MPS nozzle
8	IA9A tabulated pressure data (a) OMS nozzle (b) body flap (c) OMS pod outside (d) lower wing surface
9	IA9A tabulated pressure data (a) upper wing surface (b) left vertical tail surface (c) right vertical tail surface (d) APU inlet (e) SRM booster base
10	IA9A tabulated pressure data (a) SRM booster (b) external tank (c) external tank base

11 IA9B tabulated pressure data
- (a) orbiter fuselage
- (b) orbiter base
- (c) upper MPS nozzle
- (d) OMS nozzle
- (e) body flap
- (f) OMS pod outside
- (g) lower wing surface

12 IA9B tabulated pressure data
- (a) upper wing surface
- (b) left vertical tail surface
- (c) right vertical tail surface
- (d) APU inlet
- (e) SRM booster base
- (f) SRM booster
- (g) external tank
- (h) external tank base

13 IA9C tabulated pressure data
- (a) orbiter fuselage
- (b) orbiter base
- (c) upper MPS nozzle
- (d) OMS nozzle
- (e) body flap
- (f) OMS pod outside

14 IA9C tabulated pressure data
- (a) lower wing surface
- (b) upper wing surface
- (c) left vertical tail surface
- (d) right vertical tail surface

15 IA9C tabulated pressure data
- (a) APU inlet
- (b) SRM booster base
- (c) SRM booster
- (d) external tank
- (e) external tank base

16 OA12A tabulated pressure data
- (a) orbiter fuselage
- (b) orbiter base
- (c) upper MPS nozzle
- (d) OMS nozzle
- (e) body flap
- (f) OMS pod outside

17 OA1 A tabulated pressure data
(a) lower wing surface
(b) upper wing surface
(c) left vertical tail surface
(d) right vertical tail surface
(e) APU inlet

18 OA1 C tabulated pressure data
All components

NOMENCLATURE
General

SYMBOL	CADSAC SYMBOL	DEFINITION
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_l - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m^2, psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m^2, psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3, $slugs/ft^3$

Reference & C.G. Definitions

A_b		base area; m^2, ft^2
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
ℓ_{REF} or $\bar{c}$	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m^2, ft^2
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

SYMBOL	SADSAC SYMBOL	DEFINITION
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_ℓ	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
		Stability-Axis System
C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_ℓ	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D_f	L/DF	lift to forebody drag ratio: C_L/C_{D_f}

NOMENCLATURE (CONTINUED)

ADDITIONS TO STANDARD LIST

SYMBOL	PLOT SYMBOL	DEFINITION
δ_R	RUDDER	rudder, surface deflection angle, positive deflection, trailing edge to the left; degrees.
δ_e	ELEVON	elevon, surface deflection angle, positive deflection, trailing edge down; degrees.
δ_{RF}	RUDFLR	rudder flare, split rudder deflection angle, left split rudder trailing edge left and right split rudder trailing edge right, $\delta_{RF} = (\delta_{RL} + \delta_{RR})/2$, positive deflection; degrees.
i_o	ORBINC	incidence angle between the orbiter and external tank, $i_o = \alpha_t - \alpha_t$; degrees.
β_T	BETAT	angle of sideslip of external tank.
α_T	ALPHAT	angle of attack of external tank.
ℓ_B	LB	length of orbiter body; in.
ℓ_T	LT	length of external tank; in.
ℓ_s	LS	length of SRM booster; in.
ℓ_{NM}	LNM	length of OMS nozzle, positive direction forward of exit plane; in.
ℓ_{NP}	LNP	length of MPS nozzle, positive direction forward of exit plane; in.
b/2	BW	wing semi-span; in.
b_v	BV	vertical tail span; in.
x	X	distance from component nose; in.
y	Y	lateral distance from centerline; in.

NOMENCLATURE (CONCLUDED)

SYMBOL	PLOT SYMBOL	DEFINITION
z	Z	vertical distance measured from W.L. 500 (vertical tail reference root chord); in.
c_w	CW	local wing chord; in.
c_v	CV	local vertical tail chord; in.
x/ℓ_B	X/LB	longitudinal position/orbiter body length.
x/ℓ_T	X/LT	longitudinal position/external tank length.
x/ℓ_S	X/LS	longitudinal position/booster length.
x/ℓ_{NM}	X/LNM	longitudinal position/OMS nozzle length.
x/ℓ_{NP}	X/LNP	longitudinal position/MPS nozzle length.
x/c_w	X/CW	local chordwise position/local wing chord length.
x/c_v	X/CV	local chordwise position/local vertical tail chord length.
y/b/2	Y/BW	local spanwise position/wing semi-span.
z/b_v	Z/BV	local spanwise position/vertical tail span.

CONFIGURATIONS INVESTIGATED

The 0.030-scale aero loads model was a replica of the Space Shuttle Vehicle 2A. It consisted of four major components: the orbiter, the external oxygen and hydrogen tank (ET) and two solid rocket boosters (SRB).

On the ascent configuration, the orbiter was strut mounted from the ET on a Task Corporation MK XVI 2.5-inch diameter internal balance. The left SRB was strut mounted from the ET on a Task Corporation MK XXII 1.5-inch diameter internal balance. No attempt was made to simulate actual inter-attachments. The ET was sting mounted to the tunnel model support system on a Task Corporation 4.0-inch diameter internal balance. The right SRB was strut mounted symetrically to the left side, but did not contain a balance. The orbiter configuration, designated as O_{2A}, consisted of $B_{10}C_5D_7W_{87}V_5R_5M_3F_4$.

The entry configuration consisted of the isolated orbiter, sting mounted to the tunnel model support system on a Task Corporation MK XXA 2.5-inch diameter internal balance. Midway through the OA12C test, the MK XXA balance was damaged and was replaced by the MK XXB for the high angles of attack. The orbiter was provided with deflectable elevons by means of interchangeable brackets, deflectable rudder by means of a pin-indexed hinge, and interchangeable rudders to obtain different speed brake flare angles. The main propulsion system engines were removed during entry configuration testing to provide sting clearance. A cover plate was provided for the strut clearance hole.

The orbiter was instrumented with 374 pressure orifices on the left wing, left side of the fuselage, vertical tail, left OMS pod and engine, left and upper MPS engine and the base. The pressures were measured using eleven Scanivalve, Inc., S-type valve modules mounted internally (a five and a six gang unit). When tested in the entry configuration, the MPS pressures were not available for measurement.

The left side of the ET was instrumented with 136 pressure orifices. These pressures were measured by means of 7 Scanivalve, Inc., S-type valve modules configured as one unit of 6 modules and one single. These valves were mounted internally in the tank. The left SRB had one gang of six S-type modules to measure 102 pressures. The right SRB was not instrumented. The pressure transducers used in the valve modules were Statham PM 131 TC differential pressure transducers, with ranges of ±10 psid, ±12.5 psid and ±15 psid. Reference and calibration pressures were measured by the ARC micro manometers.

Some modifications were made to the model at the test site prior to

testing. These were as follows:

1. The forward tip of the ET containing the retro rocket package (Reference NR Drawing VL78-000018) was replaced with a flush 0.90 inch radius nose (Model scale). The new nose had five pressure taps; one in the nose and four more aft of the nose on the vertical and horizontal axis on a 0.315 inch radius.

2. The ET balance cavity was enlarged by one inch on the diameter (from 5 inches to 6 inches) to provide clearance for cable routing and eliminate balance interference.

3. The clearances around both the orbiter and the SRB struts were opened to approximately 1/8 inch to prevent interference.

4. An alternate rudder hinge pin was provided to give a rudder deflection of +15 degrees.

Before and during the tests various model discrepancies developed or were discovered. These were generally minor and had only a negligible, if any, effect on the data. Significant discrepancies are noted below:

1. Pressure orifices P171 and P173 on the OMS pod base were omitted.

2. During the test certain pressure taps developed leaks or became plugged. Data from these taps are questionable and should be used with caution. Difficulties in checking may have resulted in erroneous indications of leakage. Repairs were made to correct leaking or plugged pressure instrumentation, whenever possible, as the test progressed. The following list gives those taps that were indicated as bad on the various leak and response checks:

ARC Facility	Run Nos.	Orifice numbers with questionable pressure data
11'	2-4	72, 163, 427
↓	5-118	31, 100, 123, 163, 201, 427
	119-160	16, 98, 101, 107, 333, 427
	161-170	16, 98, 101, 107, 333, 427 + 306, 307, 327, 328, 336, 337, 356, 357, 375

CONFIGURATIONS INVESTIGATED (CONCLUDED)

ARC Facility	Run Nos.	Orifice numbers with questionable pressure data
11'	171-182	16, 47, 53, 75, 78, 98, 107, 201, 236, 237, 238, 307, 327, 365, 427
↓	183-189	Same as (171-182) + 7, 447, 525
↓	190-211	Same as (171-182)
8'x7'	220-234	20, 21, 24, 74, 326, 327, 336, 424, 427, 752, 868, 871
↓	235-285	74, 326, 327, 336, 424, 427, 752, 868, 871
↓	286-300	74, 107, 115, 124, 129, 138, 326, 327, 336, 427
↓	301-305	74, 326, 327, 336, 427
↓	306-333	74, 326, 327, 427
9'x7'	340-396	5, 325, 326, 327, 424, 427, 526, 752, 868, 871

TEST FACILITIES DESCRIPTION

Ames 11 x 11-Ft. Transonic

The Ames 11 x 11-Foot Transonic Wind Tunnel is a variable density, closed return, continuous flow type. This tunnel has an adjustable nozzle (two flexible walls) and a slotted test section to permit transonic testing over a Mach number range continuously variable from 0.4 to 1.4.

Ames 8 x 7-Ft. Supersonic

The Ames 8 x 7-Foot Supersonic Wind Tunnel is a closed-return, variable-density tunnel with a 8- by 7-foot rectangular test section. The nozzle has flexible side walls with fixed upper and lower surfaces. Mach number range is continuously variable from 2.45 to 3.5. Tunnel stagnation pressure can be varied from 0.3 to 2.0 atmospheres and Reynolds number per foot varies from 1.0×10^6 to 5.0×10^6.

Ames 9 x 7-Ft. Supersonic

The Ames 9 x 7-Foot Supersonic Wind Tunnel is a variable density, continuous flow type with an adjustable nozzle to permit supersonic testing over a Mach number range continuously variable from 1.5 to 2.5. The nozzle is of the asymmetric, sliding-block type in which the variation of the test section Mach number is achieved by translating, in the streamwise direction, the fixed-contour block that forms the floor of the nozzle.

DATA REDUCTION

Standard procedures were utilized to reduce force and pressure data to coefficient form. The following dimensional constants were applied:

Reference Dimensions and Constants (Model Scale)

$S_{Ref.} = 2.421\ ft^2$	Orbiter reference area
$\ell_{Ref.} = 39.849$ in.	Orbiter reference length

Base Areas (Model Scale)

$A_{BOI} = 0.1903\ Ft^2$	Orbiter base area, integrated
$A_{BOA} = 0.2362$	Orbiter base area, sting mounted
$A_{BMPSU} = 0.0417$	Orbiter upper MPS base area
$A_{BMPSL} = 0.0853$	Orbiter lower MPS base area
$A_{BACPS} = 0.0310$	Orbiter ACPS base area on OMS pod
$A_{BOMS} = 0.0231$	Orbiter OMS nozzle base area
$A_{BPOD} = 0.0257$	Orbiter OMS pod base area
$A_{CO} = 0.0611$	Orbiter sting cavity base area
$A_{BNOZ} = 0.0564$	SRM nozzle base area
$A_{BSKIRT} = 0.1729$	SRM nozzle skirt base area
$A_{BETI} = 0.3189$	ET Base area
$A_{CET} = 0.1964$	ET Sting cavity base area

TEST : OA12 / IA9 | TABLE I. | DATE : May, 1973

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. foot)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.6	4.0×10^6	540	120° NOM.
0.9	4.5	800	
1.1	4.0	800	
1.25	3.0	630	
1.4	3.0	650	
1.55	2.8	600	
2.0	2.3	490	
2.5	1.5	300	
3.0	2.0	350	
3.5	2.0	300	

BALANCE UTILIZED: FIVE (5) TASK CORPORATION BALANCES WITH CAPACITIES AS FOLLOWS:

	ISOLATED ORBITER MK III A	ISOLATED ORBITER MK III B	INTEGRATED VEHICLE ORB MK III	INTEGRATED VEHICLE SRB MK III	INTEGRATED VEHICLE ET MK II B
N_F	3000	3000	2400	1250	4000
N_A	3000	3000	2400	1250	4000
Y_F	1500	1500	1200	500	2000
Y_A	1500	1500	1200	500	2000
X	600	600	1200	200	1000
R	4000	4000	4000	1000	10,000
SIZE	2.5"	2.5"	2.5"	1.5"	4.0"

COMMENTS: THE MARK III A, 2.5 IN. DIA. BALANCE WAS DAMAGED AFTER RUN 319. THE MARK III B WAS SUBSTITUTED FOR RUN 320 AND SUBSEQUENT RUNS

TABLE II.

TEST: ARC 11-707 (IA9A)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 4-27-[illegible]

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	δ_R	δ_{FR}	i_o	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.6	0.9	1.1	1.25	1.4
RBMx 01	$\phi_{2A} + S_3 + T_9$	A	0	0	0	0	1.5	4	3	5	6	7	
02		A	0				0.5	5	8	18	28	38	48
03		-8	B					4	9	19	29	39	
04		-6							10	20	30	40	
05		-4							11	21	31	41	
06		-2							12	22	32	42	
07		0						5	13	23	33	43	49
08		2						4	14	24	34	44	
09		4							15	25	35	45	
10		6							16	26	36	46	
11		8							17	27	37	47	
12		-8	C		-5			2			97	102	
13		-6									118	111	
14		-4									98	103	
15		-2									117	112	
16		0									99	104	
17		2									116	113	
18		4									100	105	

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

$\alpha A = -8, -6, -4, -2, 0, 2, 4, 6, 8$

$\beta B = -8, -6, -4, -2, 0, 2, 4, 6, 8$

$\beta C = -8, -4, 0, 4, 8$

TABLE II. CONTINUED

TEST: ARC - 11 - 707 (IA 9A)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: - - -

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	δ_R	δ_{FR}	i_o	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.6	0.9	1.1	1.25	TEST RUN NUMBERS
RBMx 19	ϕ_{2A} + S_3 + T_7	6	C	0	-5	0	0.5	2			115	114	
20		8			-5						101	106	
21		-8			-10						60	69	
22		-6									61	70	
23		-4									62	71	
24		-2									63	72	
25		0									64	73	
26		2									65	74	
27		4									66	75	
28		6									67	76	
29		8									68	77	
30		-8			-15						78	88	
31		-6									79	89	
32		-4									80	90	
33		-2									81	91	
34		0									82	92	
35		2									83	93	
36		4									84	94	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TABLE II. CONTINUED

TEST: ARC 11-707 (IA9H) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: --

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δe	δR	δFR	i_o	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.6	0.9	1.1	1.25	TEST RUN NUMBERS
RBMx 37	$\phi_{2A} + S_3 + T_9$	6	C	0	-15	0	0.5	2			85	95	
38		8			-15						87	96	
39		-8			-5						50	55	
40		-4									51	56	
41		0									52	57	
42		4									53	58	
43		8									54	59	
44		4	0		0		-1.2	4	107	108	109	110	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS — IDVAR (1) IDVAR (2) ...

α OR β SCHEDULES

TABLE II. CONTINUED

TEST: ARC 97-707 IA (7E1) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE 5-17-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	δ_R	i_o	δ_{RF}	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 1.55	2.0
RB0x01	$\mathcal{O}_{2A} + S_3 + T_9$	A	0	0	0	0.5	0	2	341	351
02		B	B						342	360
03		6							343	359
04		4							344	358
05		2							345	357
06		0							346	356
07		-2							347	355
08		-4							348	354
09		-6							349	353
10		-8							350	352
11		-3	C		-15				361	367
12		-4							362	368
13		0							363	369
14		4							364	370
15		6							365	371
16		8							366	372
17		-8			-10				373	379
18		-4			-10				374	380

1 7 13 19 25 31 37 43 49

α OR β SCHEDULES

COEFFICENTS

α(A) = -8, -6, -4, -2, 0, 2, 4, 6, 8

β(B) = 8, 6, 4, -4, -6, -8

β(C) = 8, 6, 4, 0, -4, -6, -8

TABLE II. CONTINUED

TEST: ARC 97-707(IA96) DATA SET RUN NUMBER COLLATION SUMMARY DATE 5-[illegible]-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	δ_R	i_o	δ_{RF}	NO. OF RUNS	MACH NUMBERS (OF ALTERNATE ARRANGEMENT IF TABLE) 1.55	2.0	TEST RUN NUMBERS
RB0x19	$C_{2A} + S_3 + T_9$	0	C	0	-10	0.5	0	2	375	381	
20		4							376	382	
21		6							377	383	
22		8							378	384	
23		-8			+15				385	391	
24		-4							386	392	
25		0							387	393	
26		4							388	394	
27		6							389	395	
28		8							390	396	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR(1) IDVAR(2) NDV

α OR β SCHEDULES

TABLE II. CONTINUED

TEST: ARC 8×7-707 (IA9C) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 5-1-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	δ_e	δ_R	δ_{FR}	i_o	NO. OF RUNS	MACH 2.5	MACH 3.0	MACH 3.5	TEST RUN NUMBERS
RBNx01	$\emptyset_{2A} + S_3 + T_9$	A	0	0	0	0	0.5	3	240	230	220	
02		-8	B						241	231	221	
03		-6							242	232	222	
04		-4							243	233	223	
05		-2							244	234	224	
06		0							245	235	225	
07		2							246	236	226	
08		4							247	237	227	
09		6							248	238	228	
10		8							249	239	229	
11		-8	C		-15				267	256	250	
12		-4							266	257	251	
13		0							265	258	252	
14		4							264	259	253	
15		6							263	260	254	
16		8							262	261	255	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES — COEFFICENTS

αA = -8, -6, -4, -2, 0, 2, 4, 6, 8

βB = -8, -6, -4, -2, 2, 4, 6, 8

βC = -8, -6, -4, 0, 4, 6, 8

TABLE II. CONTINUED

TEST: ARC 8×7-707 (IA9C) DATA SET/RUN NUMBER COLLATION SUMMARY DATE: 5-1-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	δ_R	δ_{FR}	i_o	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 2.5	3.0	3.5	TEST RUN NUMBERS
RBN×17	$\emptyset_{2A}$ + S_3 + T_9	-8	C	0	-10	0	0.5	3	274	280*	268	
18		-4							275	281*	269	
19		0							276	282*	270	
20		4							277	283*	271	
21		6							278	284*	272	
22		8							279	295*	273	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

COEFFICENTS

* NOTE: RUNS 280-285: β SCHEDULE IS: -8, -4, 0, 4, 8

TABLE II. CONTINUED

TEST : AMES 11-707 (0A12A) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE : 4-23-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	PARAMETERS/VALUES δ_R	PARAMETERS/VALUES δ_{FR}	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.6	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.9	TEST RUN NUMBERS
RBPX01	$B_{10}C_5D_7N_2F_4M_3N_8V_5R_5W_{67}E_{18}$	A	0	0	0	0	2	119	125	
02		0	B					120	126	
03		5						121	127	
04		10						122	128	
05		15						123	129	
06		20						124	130	
07		0	C		-10			131	136	
08		5						132	137	
09		10						133	138	
10		15						134	139	
11		20						135	140	
12		0			-20			141	146	
13		5						142	147	
14		10						143	148	
15		15						144	149	
16		20						145	150	
17		0	D	10	0			151	156	
18		5	D	10	0			152	160	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES — COEFFICENTS

α A = MAX, 0, 5, 10, 15, 20, 25

β B = -10, -5, 5, 10

β C = 8, -4, 0, 4, 8

β D = -10, 0, 10

β E = -5, 0, 5

TABLE II. CONTINUED

TEST: AMES 11-707 (0A12A) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 4-23-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δe	δR	δFR	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.6	0.9	TEST RUN NUMBERS
RBPx19	$B_{10}C_5D_7N_2F_4M_3N_8V_5R_5W_{87}E_{18}$	10	D	+10	0	0	2	153	157	
20		15						154	159	
21		20						155	158	
22		0	C	-10				161	166	
23		5						162	167	
24		10						163	168	
25		15						164	169	
26		20						165	170	
27		-4	E	-20				171	182	
28		0	C					172	181	
29		5						173	180	
30		10						174	179	
31		15						175	178	
32		20						176	177	
33		-4	E	0	0	40		183	189	
34		0	C					184	190	
35		5						185	191	
36		10						186	192	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES — COEFFICENTS

α A = -MAX, 0, 5, 10, 15, 20, 25

β B = -10, -5, 5, 10

β C = -8, -4, 0, 4, 8

β D = -10, 0, 10

β E = -5, 0, 5

TABLE II. CONTINUED

TEST: AMES 11-707 (0A12A) | DATA SET/RUN NUMBER COLLATION SUMMARY | DATE: 4-23-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	PARAMETERS/VALUES δ_R	PARAMETERS/VALUES δ_{FR}	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.6	0.9	1.1	1.25	1.4	TEST RUN NUMBERS
RBPx37	$B_1 C_5 D_7 N_2 F_4 M_3 N_8 V_6 R_5 W_{87} F_{18}$	15	C	0	0	40		187	193				
38		20	C			40		188	194				
39		F	0			0				199	197	195	
40		0.5	G							200	198	196	
41		-4	E		-10			201	202				
42		-4	E		-20			203	204				
43		-4	E	10	0	0		205	206				
44		-4	E	-10				207	208				
45		-4	E	0				210	209				
46		H	0					216	211				
47		-5	I					215	212				
48		-10	I					214	213				

1 7 13 19 25 31 37 43 49 55 61 67 75 76

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES — COEFFICIENTS

α_F = -4.5, -3.5, -1.5, 0.5, 2.5, 4.5, 6.6, 8.6, 10, 15

α_H = 0, -5, -10, -15

β_G = -8, -4, -2, 0, 2, 4, 8

β_I = -10, -5, 5, 10

TABLE II. CONTINUED

TEST: 87-707 (ØA12C)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 5-9-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	δ_R	δ_{FR}	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 2.5	3.5
RBQx01	$B_{10}C_5D_7M_2F_4M_3N_8V_5R_5W_{87}F_{72}$	A	0	0	0	40	2	290	286
02		0	B					293	289
03		10	C					292	288
04		20	C					291	287
05		0	D		-20			297	294
06		10						298	295
07		20						299	296
08		0		10	0			303	300
09		10						304	301
10		20						305	302
11		0		-20				309	306
12		10						310	307
13		20						311	308
14		0		-40				317	314
15		10						318	315
16		20						319	316
17		E	0	0				322	320
18		30	D	0				323	321

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

αA = 0, 5, 10, 15, 20

βB = 3, -3

αE = 15, 20, 25, 30, 35, 40

βC = 6, 3, -3, -6

βD = 6, 3, 0, -3, -6

TABLE II. CONCLUDED

TEST: 87-707 (ØA12C)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 5-9-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	δ_R	δ_{FR}	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 2.5	3.5
RBQx 19	$B_{10}C_5D_7N_8F_4M_3N_8V_5R_5W_{87}E_{78}$	30	D	0	-20	40	2	325	324
20		30	D	10	0	40		327	326
21		30	D	-20	0	40		329	328
22		20	F	0	0	40		332	330
23		15	G	0	0	40		333	331

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

$\beta F = 10, 6, 0, -6, -10$

$\beta G = 6, 0, -6$

TABLE III. MODEL COMPONENT DIMENSIONAL DATA

MODEL COMPONENT: B10 Body

GENERAL DESCRIPTION: Fuselage, 2A Configuration, Lightweight Orbiter, per Rockwell Lines VL70-000089 "B."

Scale Model = .030

DRAWING NUMBER: VL70-000089 "B"
VL70-000092, 93, 94 "A"

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length ~ IN	1328.3	39.8490
Max. Width ~ IN ($@X_o$ = 1528.3)	265.0	7.9500
Max. Depth ~ IN. ($@X_o$ = 1480.52)	248.0	7.4400
Fineness Ratio	5.012	5.012
Area ~ Ft^2		
Max. Cross-Sectional	456.4	.41076
Planform		
Wetted		
Base		

TABLE III. (CONTINUED)

MODEL COMPONENT: Canopy - C5

GENERAL DESCRIPTION: 2A Configuration per Lines VL70-000092

Scale Model = .030

DRAWING NUMBER: VL70-000092

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length (STA FWD Bulkhead)	391.0	11.730
Max. Width (T.E. Bulkhead)	560.0	16.800
Max. Depth (WP = 42.9 22 to = 500)		
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		

TABLE III. (CONTINUED)

MODEL COMPONENT: Manipulator Housing D-7

GENERAL DESCRIPTION: 2A Configuration per Rockwell Lines VL70-000093

Scale Model = .030

DRAWING NUMBER: VL70-000093

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length ~ IN.	881.00	26.430
Max. Width ~ IN.	51.00	1.530
Max. Depth ~ IN.	23.00	.690
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		

E Fuselage BP = 0.00

WP = 500.0 IN. FS

X.426.0 to 1307.0 IN. FS

TABLE III. (CONTINUED)

MODEL COMPONENT: WING-W87 New Light Weight Orbiter

GENERAL DESCRIPTION: Orbiter Configuration Per Lines VL70-000093.

NOTE: (Dihedral Angle is defined at the lower surface of the Wing at the 75.33% element line projected into a plane perpendiculary.

Scale Model = .030

TEST NO.

DWG. NO. VL70-000093

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo.) Ft^2	2690.00	2.42100
Planform	936.68	28.10040
Span (Theo In.	2.265	2.265
Aspect Ratio	1.177	1.177
Rate of Taper	0.200	0.2000
Taper Ratio	3.5000	3.500
Dihedral Angle, degrees	3.000	+3.00
Incidence Angle, degrees	3.500	+3.000
Aerodynamic Twist, degrees		
Sweep Back Angles, degrees		
Leading Edge	45.00	45.00
Trailing Edge	-10.24	-10.24
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.0.0.	689.24	20.67720
Tip, (Theo) B.P. 46834	137.85	4.13550
MAC	474.81	14.24430
Fus. Sta. of .25 MAC	1136.89	34.10670
W.P. of .25 MAC	299.29	8.97840
B.L. of .25 MAC	182.13	5.46390
183.13		
EXPOSED DATA		
Area (Theo) Ft^2	1752.29	1.57706
Span, (Theo) In. BP108 to 468.341	720.68	21.62040
Aspect Ratio	2.058	2.058
Taper Ratio	.2451	.2451
Chords		
Root BP108	562.40	16.8720
Tip 1.00 $\frac{b}{2}$	137.85	4.13550
	393.03	11.79090
MAC	1185.31	35.55930
Fus. Sta. of .25 MAC	300.207	9.00621
W.P. of .25 MAC	143.76	4.31280
B.L. of .25 MAC		
Airfoil Section (Rockwell Mod NASA) XXXX-64		
Root $\frac{b}{2}$ = .425	.10	.10
Tip $\frac{b}{2}$ = 1.00	.12	.12
Data for (1) of (2) Sides		
Leading Edge Cuff	120.33	.10830
Planform Area Ft^2	560.0	16.80
Leading Edge Intersects Fus M. L. @ Sta	1035.0	31.050
Leading Edge Intersects Wing @ Sta		

TABLE III. (CONTINUED)

MODEL COMPONENT: Elevon E-18

GENERAL DESCRIPTION: 2A Configuration Per W-87 Rockwell Lines VL 70-000093 Data for (1) of (2) Sides

Scale Model = .030

DRAWING NUMBER: VL 70-000093

DIMENSIONS:		FULL-SCALE	MODEL SCALE
Area ~ Ft^2		205.52	.18497
Span (equivalent) ~ IN.		353.34	10.60020
Inb'd equivalent chord		114.78	3.44340
Outb'd equivalent chord		55.00	1.6500
Ratio movable surface chord/ total surface chord			
At Inb'd equiv. chord		.208	.208
At Outb'd equiv. chord		.400	.400
Sweep Back Angles, degrees			
Leading Edge		0.00	0.00
Tailing Edge		-10.24	-10.24
Hingeline		0.00	0.00
Area Moment (Normal to hinge line)	Ft^3	1548.07	.04180
Product of Area Moment			

TABLE III. (CONTINUED)

MODEL COMPONENT: VERTICAL - V5 (Light Weight Orbiter Configuration)

GENERAL DESCRIPTION: Centerline Vertical Tail, Double Wedge Airfoil with Rounded Leading Edge

Scale Model = .030

DRAWING NUMBER: VL70-000095

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo) Ft^2	413.25	.37192
Planform		
Span (Theo) In	315.72	9.47160
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	.404	.404
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	26.249	26.249
0.25 Element Line	41.130	41.130
Chords:		
Root (Theo) WP	268.50	8.05500
Tip (Theo) WP	108.47	3.25410
MAC	199.81	5.99430
Fus. Sta. of .25 MAC	1463.50	43.90500
W. P. of .25 MAC	635.522	19.06566
B. L. of .25 MAC	0.00	0.00
Airfoil Section		
Leading Wedge Angle Deg	10.000	10.000
Trailing Wedge Angle Deg	14.920	14.920
Leading Edge Radius IN.	2.00	.06
Void Area Ft^2	13.17	.01185
Blanketed Area Ft^2	12.67	.01140

TABLE III. (CONTINUED)

MODEL COMPONENT: R-5 Rudder

GENERAL DESCRIPTION: 2A Configuration per Rockwell Lines VL 70-000095

Scale Model = .030

DRAWING NUMBER: VL 70-000095

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area ~ Ft^2	106.38	.09574
Span (equivalent) ~IN.	201.0	6.030
Inb'd equivalent chord	91.585	2.74755
Outb'd equivalent chord	50.833	1.52499
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	34.83	34.83
Tailing Edge	26.25	26.25
Hingeline	34.83	34.83
Area Moment (Normal to hinge line) ~Ft^3 Product of Area and Mean Chord	526.13	.01421

TABLE III. (CONTINUED)

MODEL COMPONENT: OMS Pod -M3

GENERAL DESCRIPTION: 2A Light Weight Configuration per Rockwell Lines VL70-000094A

Scale Model = .030

DRAWING NUMBER: VL70-000094A

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length	346.0	10.380
Max. Width $X_{\_}$ = 1450.0	108.0	3.240
Max. Depth X_o = 1500.0	113.0	3.390
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		

℄ of OMS Pod

WP = 463.9 IN. FS WP 400 + 63.9 = 463.9

BP = 80.0 IN. FS

Length 1214.0 to 1560.0' = 346.0 IN. FS

TABLE III. (CONTINUED)

MODEL COMPONENT: F4 Body Flap

GENERAL DESCRIPTION: 2A Configuration per Rockwell Lines VL70-000094A

Scale Model = .030

DRAWING NUMBER: VL70-000094A

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length	84.70	2.541
Max. Width	265.00	7.950
Max. Depth		
Fineness Ratio		
Area ~ Ft^2		
Max. Cross-Sectional		
Planform	142.64	.12838
Wetted		
Base Ft^2	38.65	.03478

TABLE III. (CONTINUED)

MODEL DIMENSIONAL DATA

MODEL COMPONENT : S3-Booster Solid Rocket Motor

GENERAL DESCRIPTION : 2A Configuration Per Rockwell Lines VL77-000012 & VL72-000061 "B"

Body of Revolution; Data for (1) of (2) Sides

Scale Model = .030

DRAWING NUMBER : VL 77-000012

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ~IN.	1732.0	51.96
Max Width (DIA) IN. BSRM Tank	142.0	4.260
Max Depth (DIA) Aft Skirt	259.0	7.77
Fineness Ratio L/D	6.687	6.687
Area ~ Ft^2		
Max. Cross-Sectional (Aft Skirt)	365.87	.32928
Planform		
Wetted		
Base		

Ref.

FS (Orbiter) = 0.00 = 747.99 IN. ET = 200.0 IN. BSRM

WP (BSRM) = WP 400(Orbiter) - 344.413 = 55.587 IN.

BP (Orbiter) = 0.00 = 243.0 IN. BSRM

TABLE III. (CONCLUDED)

MODEL COMPONENT: EXTERNAL TANK - T9

GENERAL DESCRIPTION: 2A Configuration

NOTE: T9 identical to T8 W/O retro pkg., nose w/30"R F.S.

DRAWING NUMBER NONE

DIMENSION:	FULL SCALE	MODEL SCALE
Length - IN.	1858	55.740
Max Width (Dia) - IN.	324.0	9.720
Max Depth		
Fineness Ratio L/D	5.73457	5.73457
Area - FT^2		
Max Cross-Sectional	572.56	0.51530
Planform		
Wetted		
Base		
Nose, Radius, IN.	30.0	

ORBITER BODY

ORBITER STATION ~ X_o			RADIAL LOCATION θ ~ DEGREES																
FULL	MODEL	X_o/ℓ_o	0	20	40	55	70	90	105	110	120	135	142	150	157	162	165	169	172	180
200	6.00	0	20																	23
210	6.30	.008	21					22												32
225	6.75	.019	24	25	26	27	28	29			30			31						41
245	7.35	.034	33	34	35	36	37	38			39			40						50
280	8.40	.060	42	43	44	45	46	47			48			49						59
380	11.40	.136	51	52	53	54	55	56			57			58					60	
400	12.00	.151													61					
410	12.30	.158																		
430	12.90	.173	62	63	64	65	66	67			68			69		70		71		72
460	13.80	.196											73							
500	15.00	.226	74	75	76	77	78	79			80			81			82			83
560	16.80	.271	84		85		86	87			88			89			90			91
625	18.75	.320	92		93		94	95			96			97			98			99
725	21.75	.395	100		101		102	103			104			105			106			107
880	26.40	.512	108		109		110	111			112			113			11[illegible]			115
980	29.40	.587	116		117															
1080	32.40	.662			118		119	120			121			122			123			124
1180	35.40	.738					125	126			127			128						129
1245	37.35	.787			130		131	132	133		134	135		136			137			138
1300	39.00	.828			139		140	141	142		143	144		145			146			
1375	41.25	.885			147		148	149	150		151	152		153			154			
1430	42.90	.926			155		156	157	158		159	160		161			162			
1480	44.40	.964	163				164	165	166		167	168		169			170			
1530[a]	45.90	1.001								171	173									
1530[b]	45.90	1.001								172	174									

a OMS POD, INSIDE

b OMS POD, OUTSIDE

a. Orbiter body

Table IV. Pressure Orifice Locations

ORBITER BASE

LOCATION	ORIFICE NUMBERS
ORBITER BASE (INTEGRATED)	1, 2, 3, 4
LEFT MPS NOZZLE BASE	5
UPPER MPS NOZZLE BASE	6
ACPS BASE AREA ON OMS POD	7
OMS NOZZLE BASE	8
OMS POD BASE	9
ORBITER BASE (STING MOUNT)	11, 12, 13, 14
ORBITER STING CAVITY	15, 16

BODY FLAP LWR SURFACE

ORB. STA. ~ X_o		θ ~ DEG	
FULL	MODEL	0	40
1580	47.40	175	176

MPS NOZZLE

X ~ IN. FWD BASE		θ ~ DEG					
FULL	MODEL	0	90	135	180	225	270
25	0.75	181	182	183	184	185	186
50	1.50	187	188	189	190	191	192
75	225		193	194	195	196	197

OMS NOZZLE

X ~ IN FWD BASE		θ ~ DEG		
FULL	MODEL	135	180	225
10	0.30	177	178	179
20	0.60		180	

VERTICAL TAIL

WATER PLANE ~ Z_o				X/C ~ THEORETICAL VERTICAL CHORD							
FULL	MODEL	η_V		0	.05	.15	.30	.52	.65	.775	.90
525	15.75	.079		400							
550	16.50	.158	L	410	411	412	413	414	415	416	
			R		511	512	513	514	515	516	
600	18.00	.316	L	420	421	422	423	424	425	426	427
			R		521	522	523	524	525	526	527
690	20.70	.60	L	430	431	432	433	434	435	436	437
			R		531	532	533	534	535	536	537
765	22.95	.84	L	440	441	442	443	444	445	446	447
			R		541	542	543	544	545	546	547
792	23.76	.925	L	450	451	452	453	454	455	456	457
			R		551	552	553	554	555	556	557

b. Orbiter Base, Body Flap Lower Surface, and Vertical Tail

Table IV. Continued.

ORBITER WING

ORBITER B.P. – Y_o				X/C – THEORETICAL WING CHORD																				
FULL	MODEL	η		-.49	-.35	-.25	-.15	-.033	0.0	.05	.15	.25	.40	.55	.60	.65	.70	.725	.75	.775	.80	.85	.90	.95
140	4.20	.299	U	200	201		202			203		204		205					206		207	208		209
			L		301		302			303		304		305					306		307	308		309
170	5.10	.364	U			210	211			212														
			L				311			312														
200	6.00	.427	U					220		221	222		223	224					225		226	227	228	229
			L							321	322		323	324					325		326	327	328	329
250	7.50	.534	U						230	231	232	233	234	235				236		237		238	239	240
			L							331	332	333	334	335				336		337		338	339	340
315	9.45	.673	U						250	251	252	253	254	255			256			257		258		259
			L							351	352	353	354	355			356			357		358		359
365	10.95	.780	U						260	261	262	263				264			265			266		267
			L							361	362	363				364			365			366		367
415	12.45	.887	U						270	271	272	273	274		275				276				277	
			L							371	372	373	374		376				376				377	

U – UPPER SURFACE L – LOWER SURFACE

η	X/C LOCAL WING CHORD
.299	0, .094, .229, .362, .497, .700, .834, .865, .900 , .965
.364	0, .086, .246
.427	0, .081, .177, .402, .565, .760, .808, .857, .905, .953
.534	SAME AS THEORETICAL CHORD
.673	↓
.780	
.887	

c. Orbiter Wing

Table IV. Continued.

EXTERNAL TANK

TANK STA ~ XT			θ ~ DEG									
FULL	MODEL	XT/LT	0	30	60	90	120	135	150	165	180	270
316.	9.48	0	610			614					619	620
317.7	9.53	.001	611						627		629	
400	12.00	.045	621	622	623	624	625		637	638	639	
520	15.60	.110	631	632	633	634	635		647	648	649	
640	19.20	.174	641	642	643	644	645		657	658	659	
670	20.10	.191	651	652	653	654	655		667	668	669	
710	21.30	.212	661	662	663	664	665		677	678	679	
750	22.50	.234	671	672	673	674	675	676	687	688	689	
850	25.50	.287	681	682	683	684	685		697	698	699	
950	28.50	.341	691	692	693	694	695	696	707	708	709	
1050	31.50	.395	701	702	703	704	705		717		719	
1150	34.50	.449	711	712	713	714	715	716	727	728	729	
1250	37.50	.503	721	722	723	724	725		737		739	
1350	40.50	.557	731	732	733	734	735	736	747	748	749	
1500	45.00	.637	741	742	743	744	745		757		759	
1700	51.00	.745	751	752	753		755	756	767	768		
1900	57.00	.853	761	762	763		765	766	777	778		
2040	61.20	.929	771	772	773	774	775	776				
STING CAVITY BASE			601 602			603					604	

d. External Tank

Table IV. Continued.

LEFT SRM

SRM STATION ~ XS			θ ~ DEG							
FULL	MODEL	XS/ℓS	0	45	90	135	180	225	270	315
200	6.00	0	810							
260	7.80	.034	811	812	813	814	815	816	817	818
370	11.10	.097	821	822	823	824	825	826	827	828
400	12.00	.114	831	832	833	834	835	836	837	838
450	13.50	.142	841	842	843	844	845	846	847	848
550	16.50	.199	851	852	853	854	855	856	857	858
700	21.00	.284	861		863		865	866	867	868
850	25.50	.370	871		873		875		877	
1050	31.50	.484	881		883		885			
1250	37.50	.597	891		893		895			
1450	43.50	.711	901		903		905		907	
1650	49.50	.825	911		913		915		917	
1750	52.50	.882	921	922	923	924	925	926	927	928
1790	53.70	.904	931	932	933	934	935	936	937	938
1850	55.50	.939	941	942	943	944	945	946	947	948
1900	57.00	.967	951	952	953	954	955	956	957	958
NOZZLE BASE			801							
SKIRT BASE			802		803		804		805	

e. Left SRM

Table IV. Concluded.

Notes:

1. Positive directions of force cofficients, moment coefficients, and angles are indicated by arrow
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

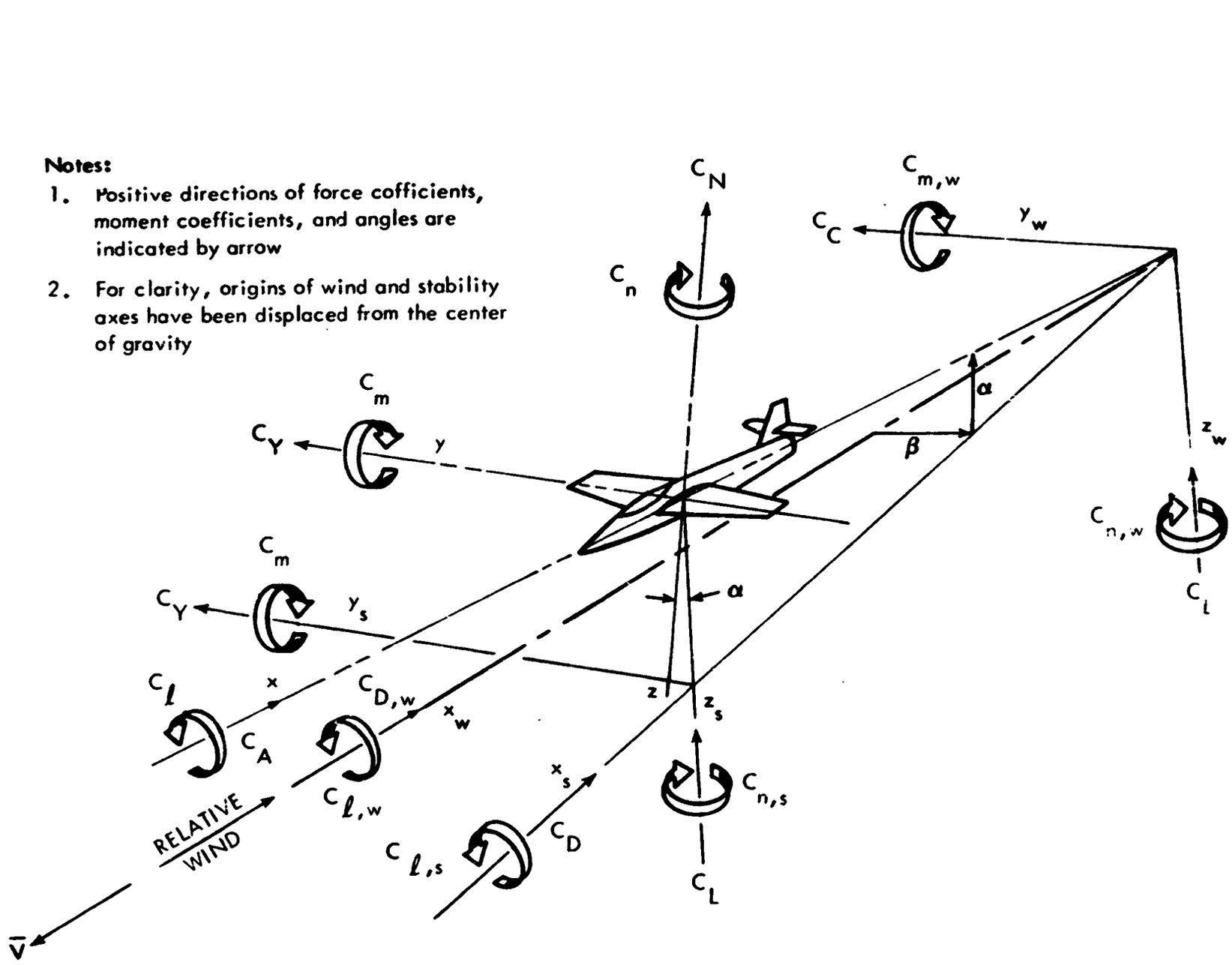
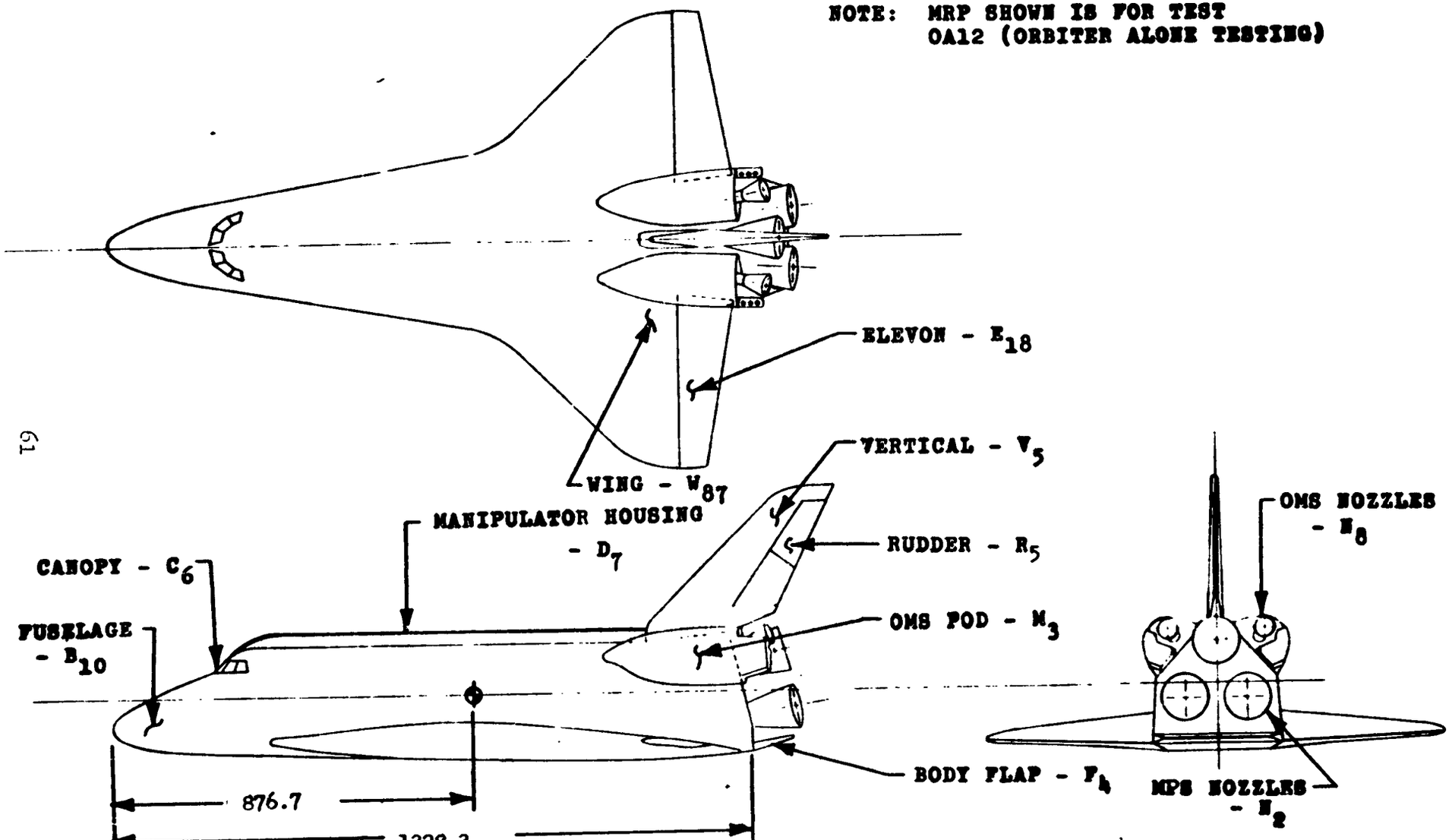
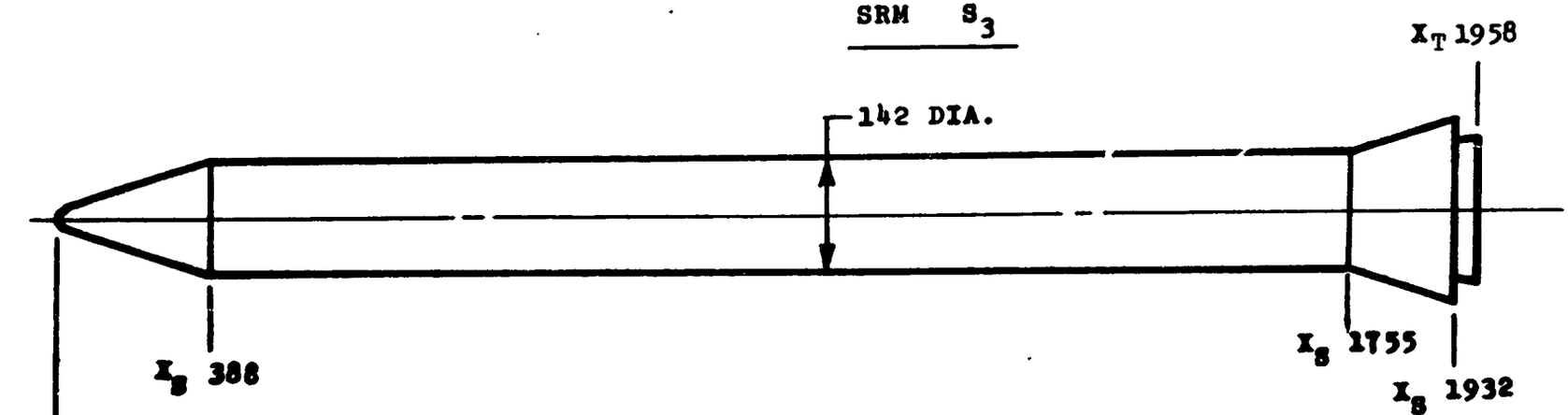


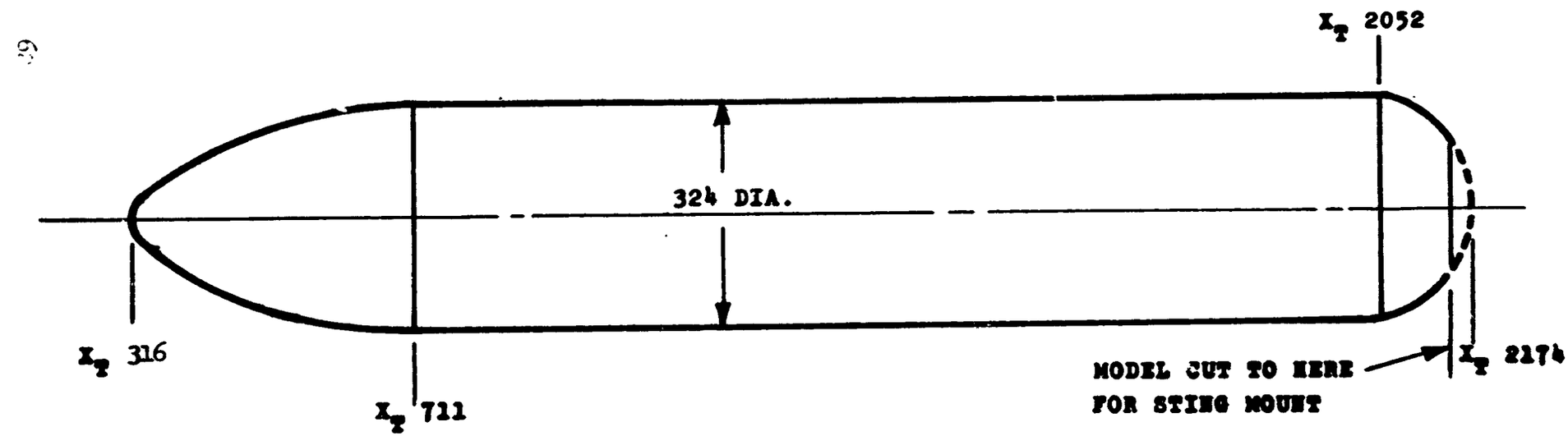
Figure 1. - Axis Systems.



a. Orbiter, O_{2A}

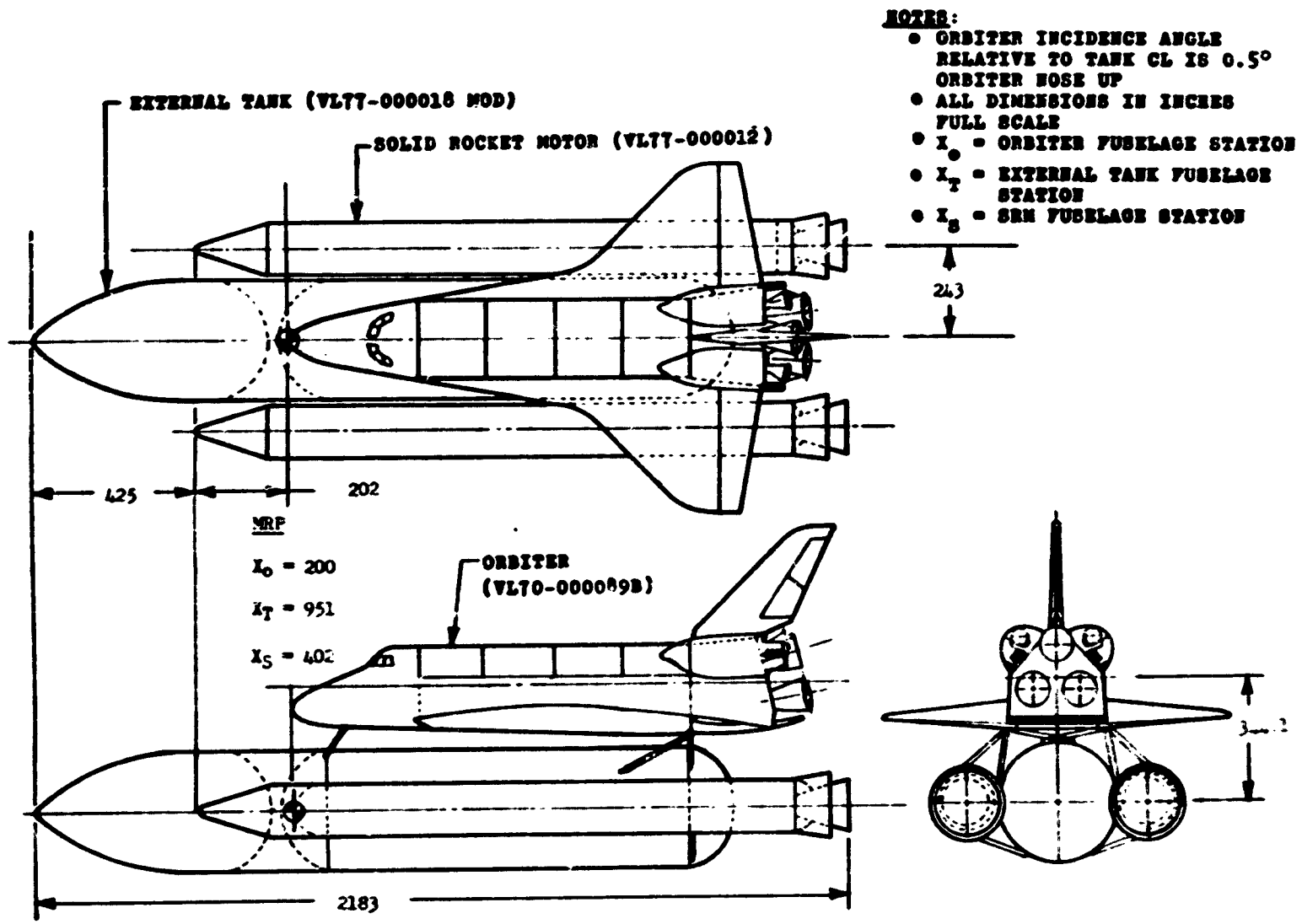
Figure 2. - Model Sketches.





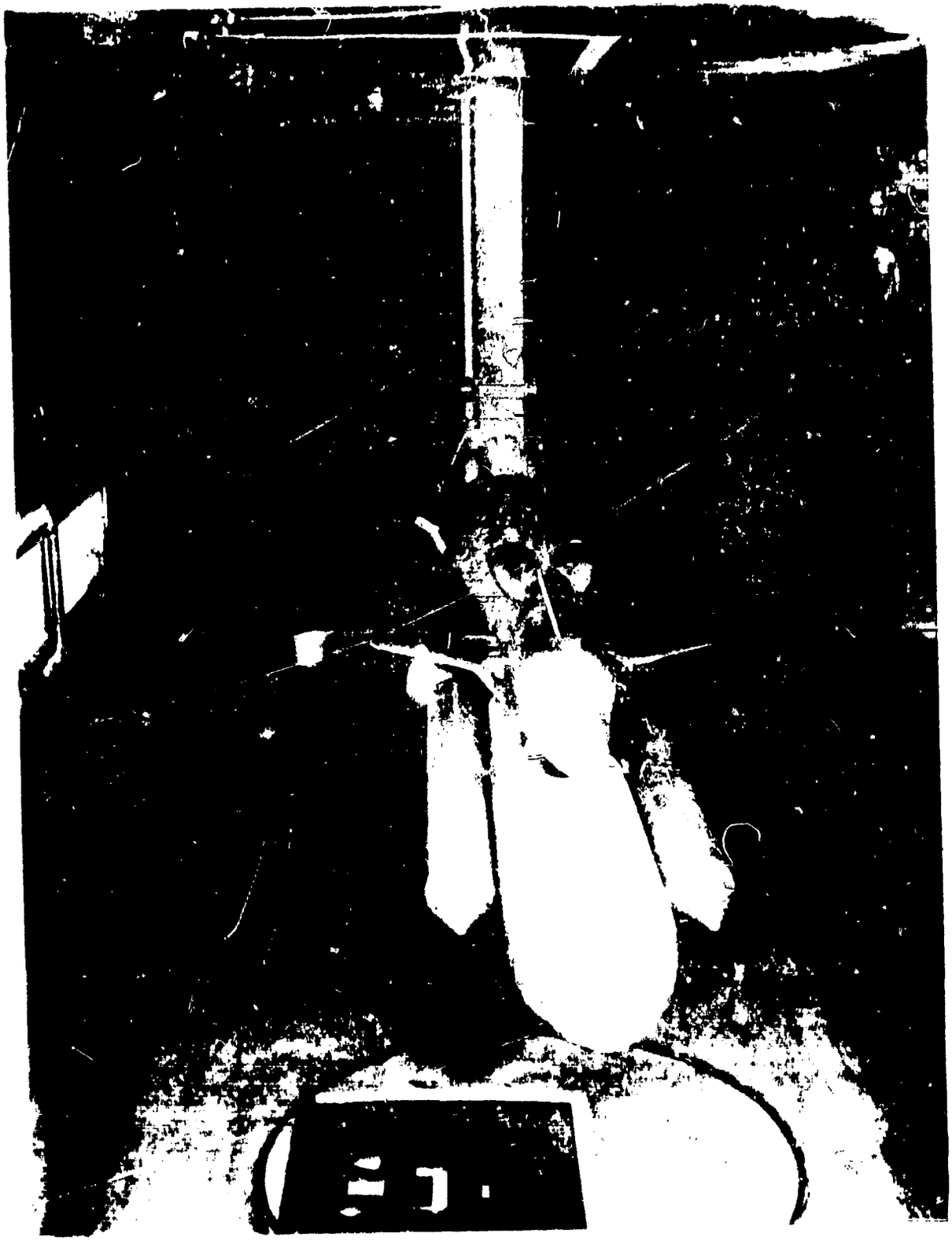
b. SRM, S_3, and External Tank, T_9

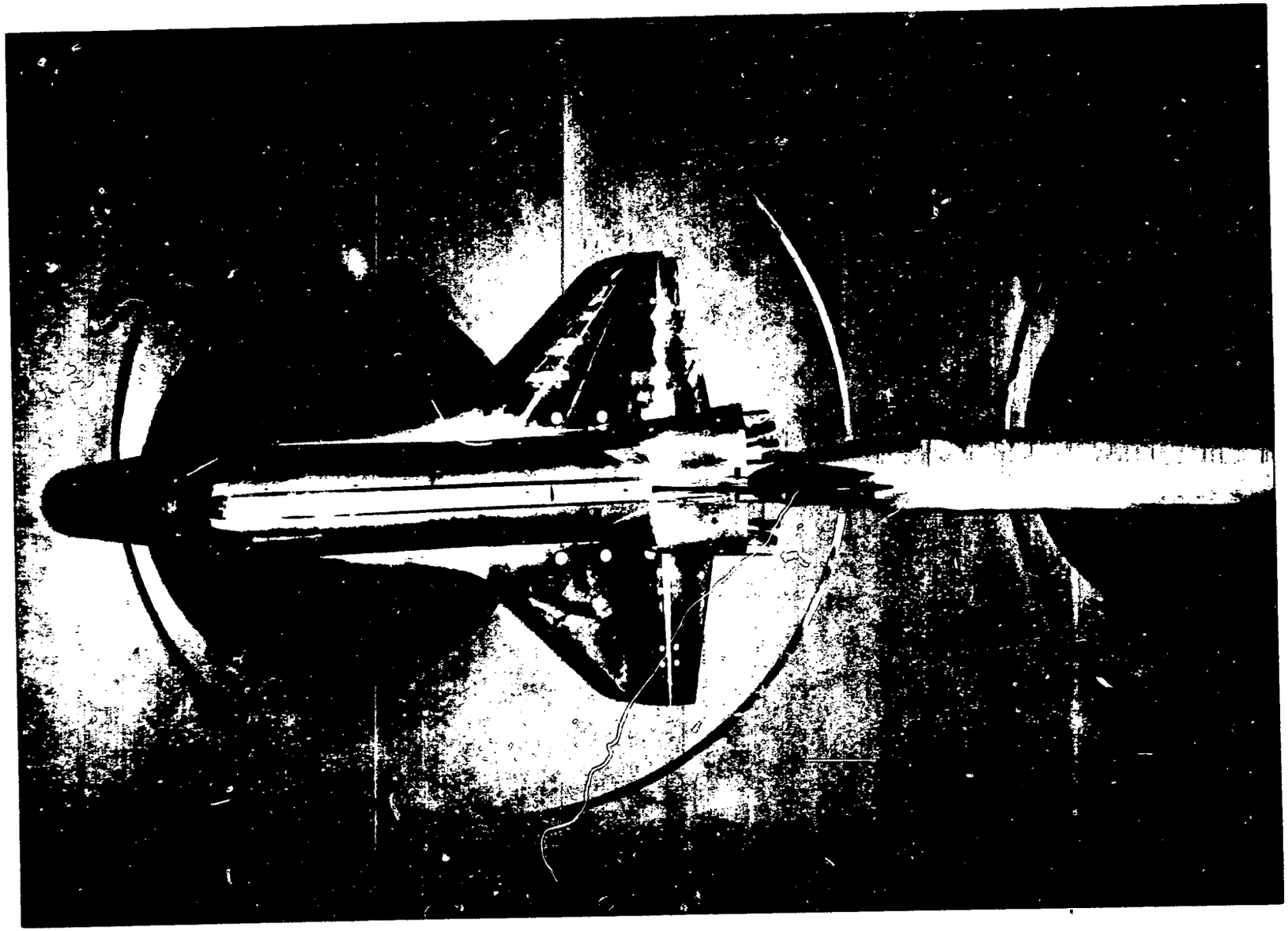
Figure 2. - Continued.



c. Integrated Vehicle

Figure 2. - Concluded.





b. Isolated Orbiter (Entry Configuration) Mounted in the ARC 8x7 Ft. Tunnel

Figure 3. - Concluded.

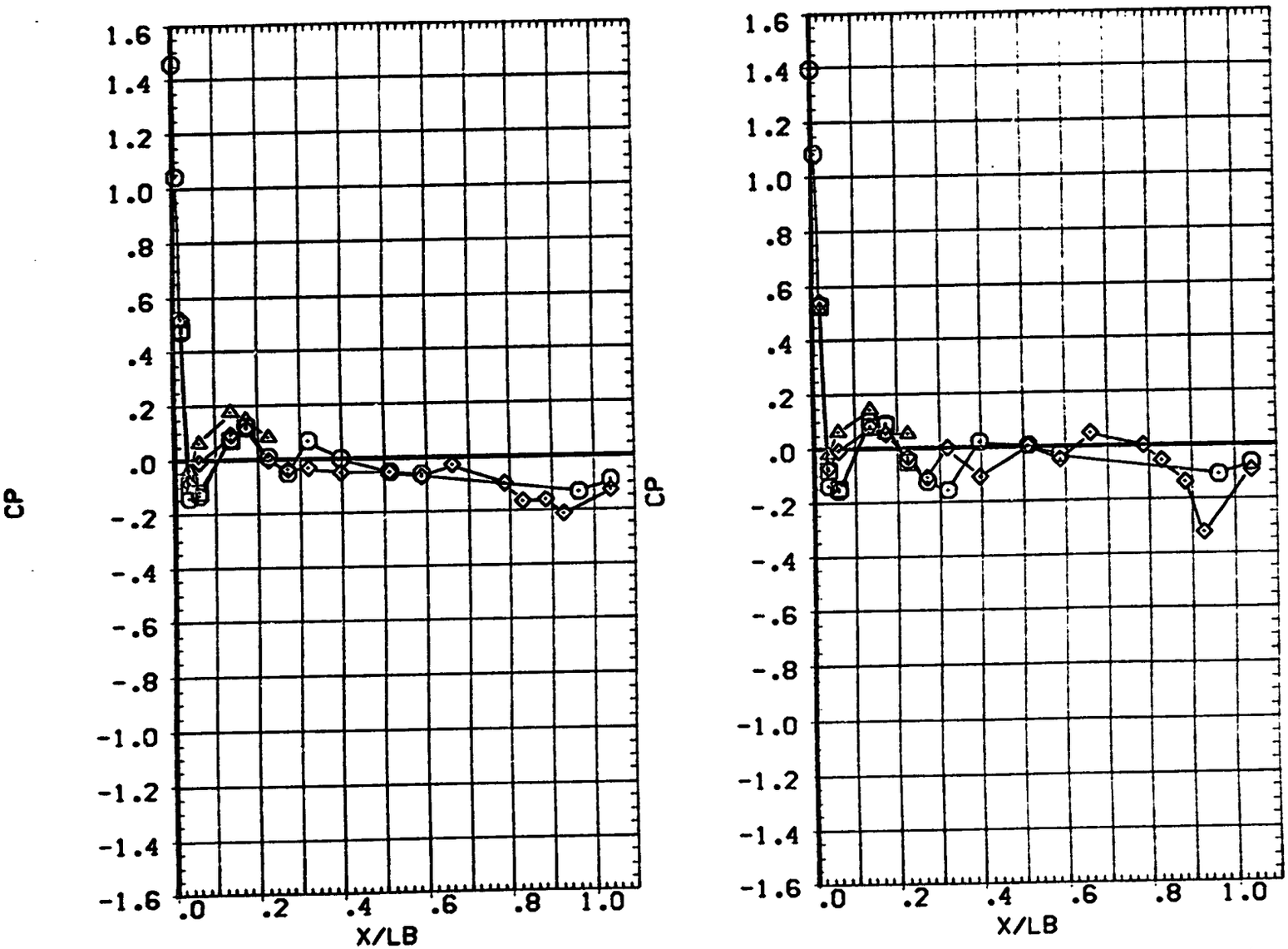
DATA FIGURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B01)

SYMBOL	PHI	ALPHAT	MACH
○	.000	-4.250	1.555
□	20.000	-.120	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	-ELEVON	.000
RUDFLR	.000		



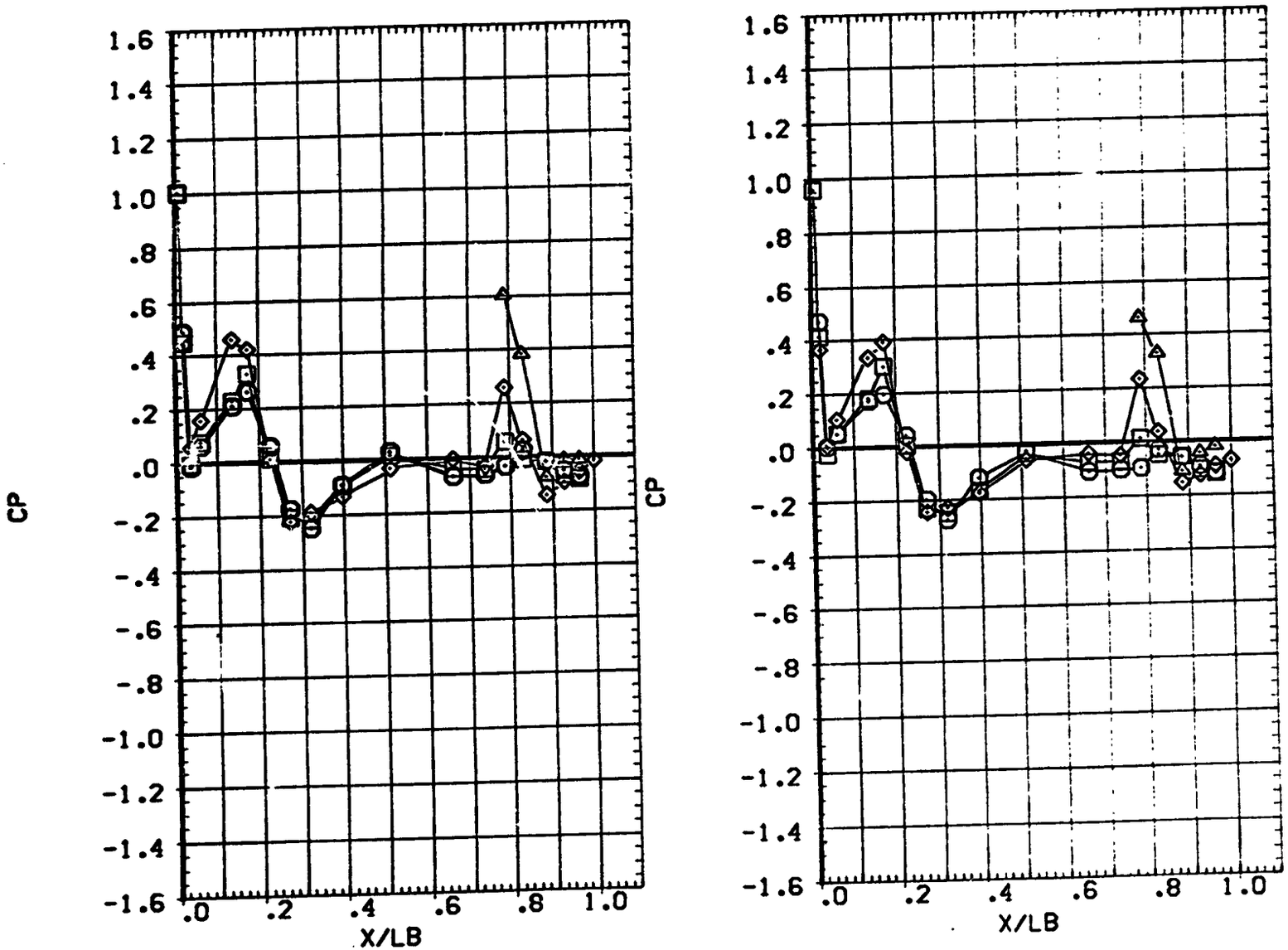
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B01)

SYMBOL	PHI	ALPHAT	MACH
○	70.000	-4.250	1.555
□	90.000	-.120	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



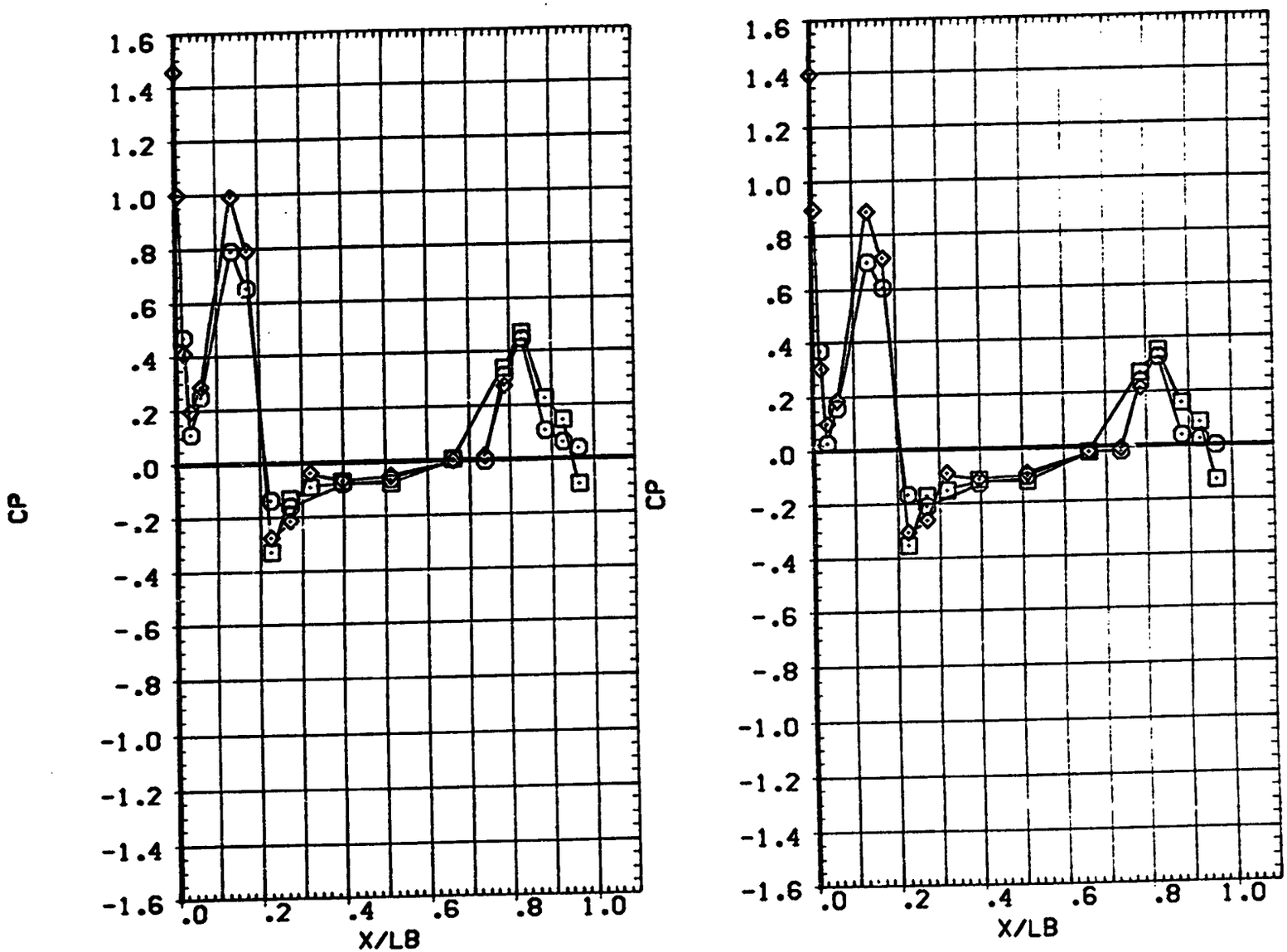
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B01)

SYMBOL	PHI	ALPHAT	MACH
○	150.000	-4.250	1.555
□	165.000	-.120	
◇	180.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



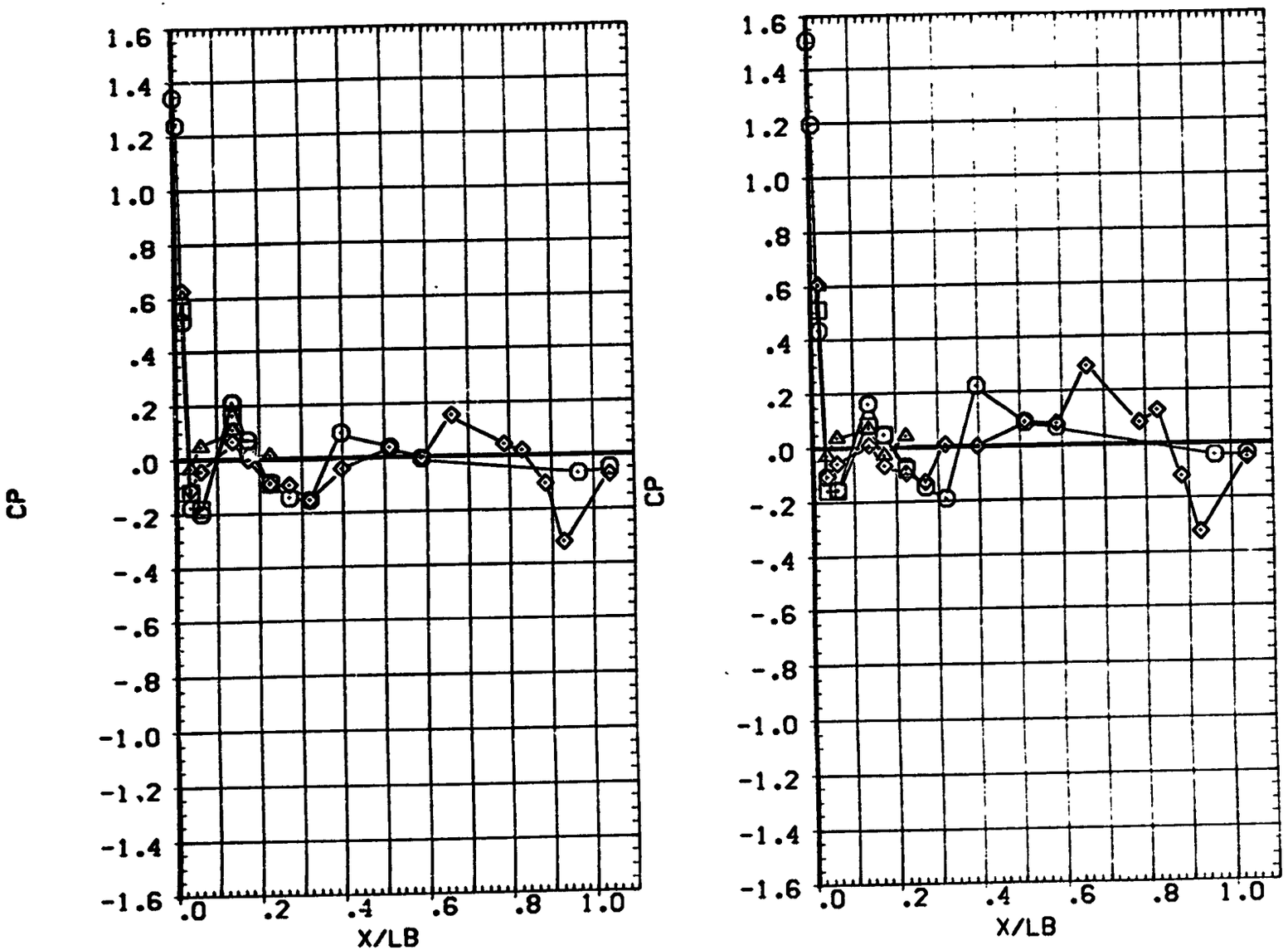
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBOBC:)

SYMBOL	PHI	ALPHAT	MACH
○	.000	4.010	1.555
□	20.000	8.130	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



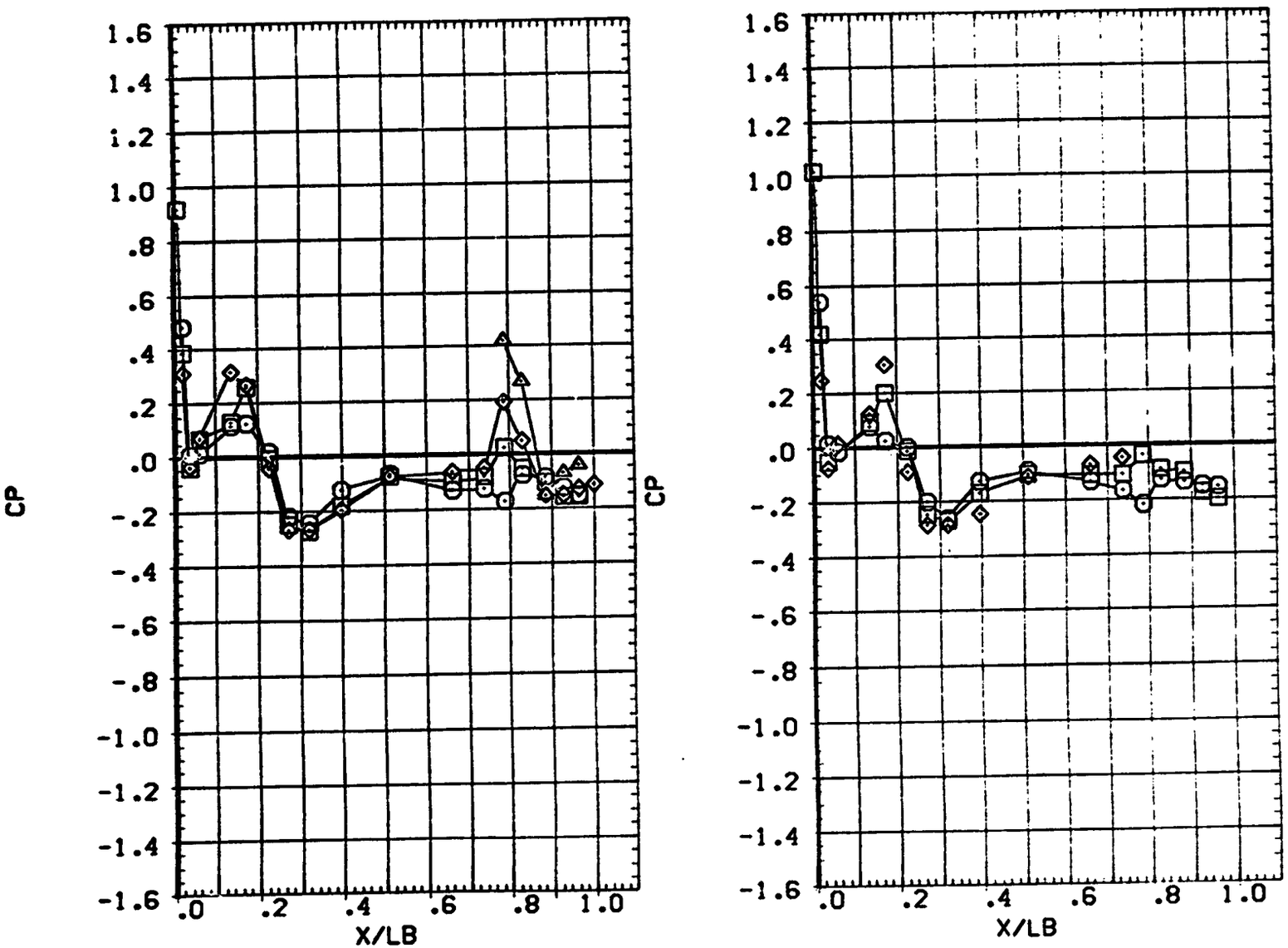
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBCB01)

SYMBOL	PHI	ALPHAT	MACH
○	70.000	4.010	1.555
□	90.000	8.130	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



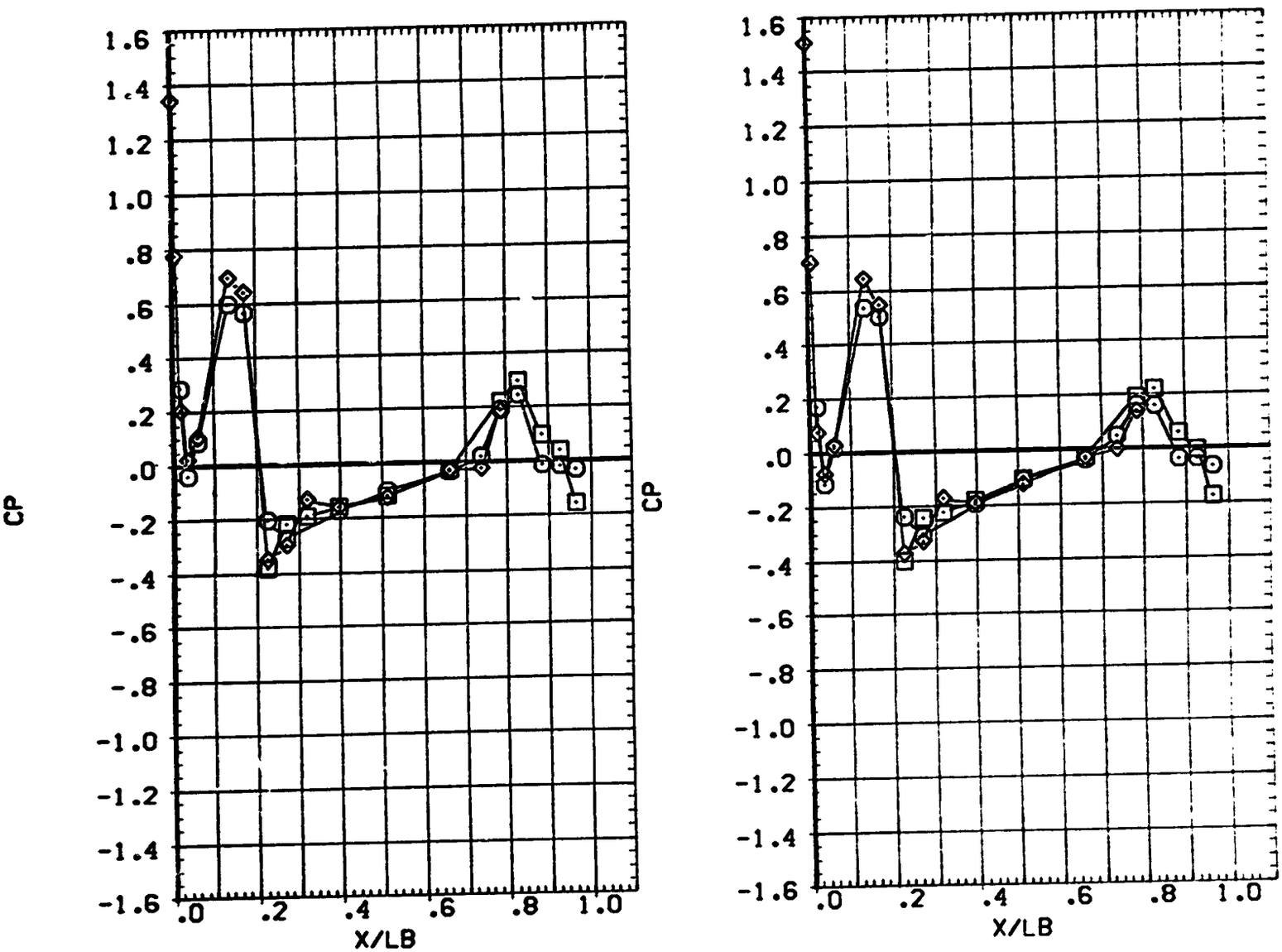
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B01)

SYMBOL	PHI	ALPHAT	MACH
○	150.000	4.010	1.555
□	165.000	8.130	
◇	180.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



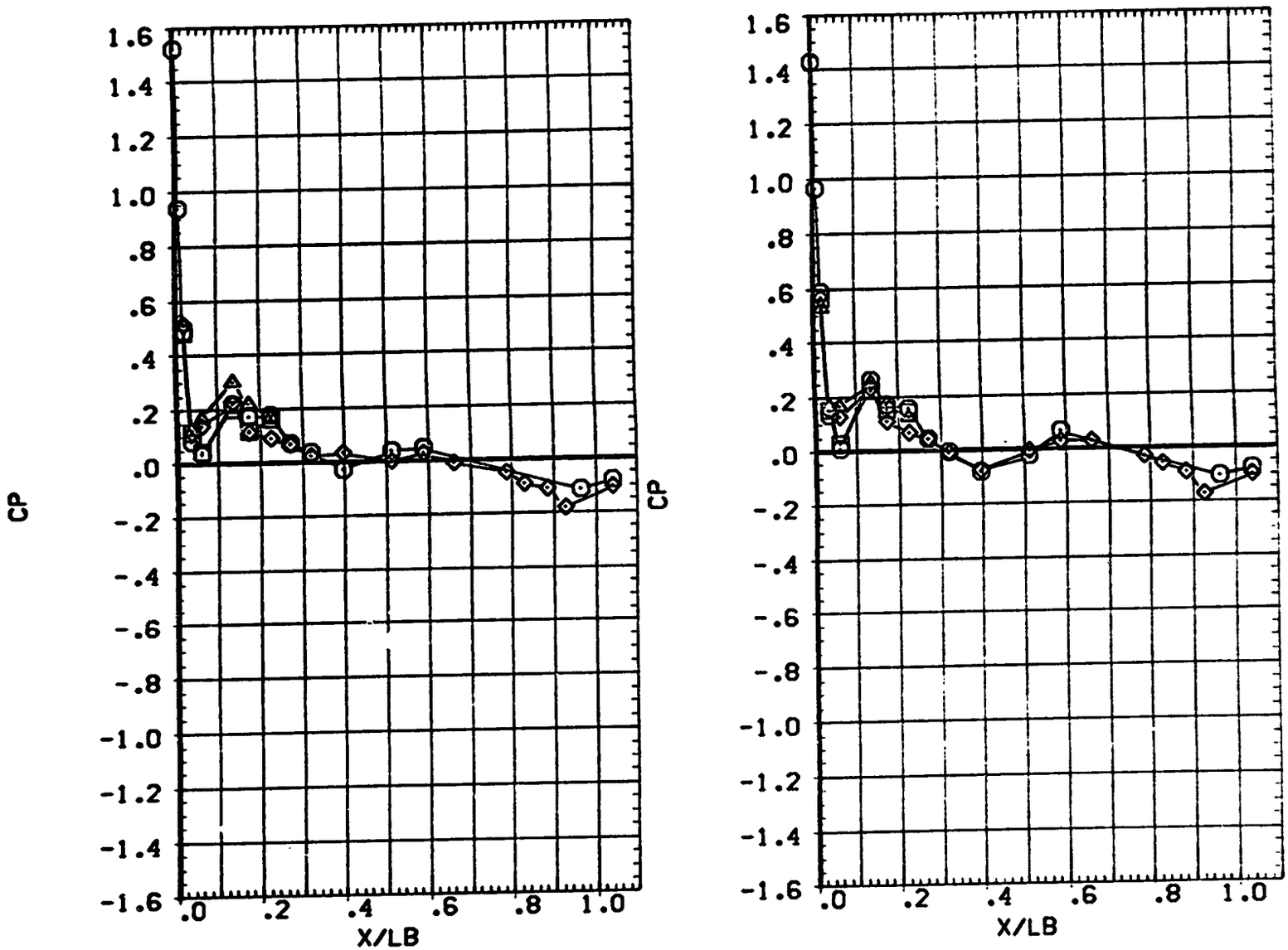
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RB0B01)

SYMBOL	PHI	ALPHAT	MACH
○	.000	-4.250	2.000
□	20.000	-.160	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



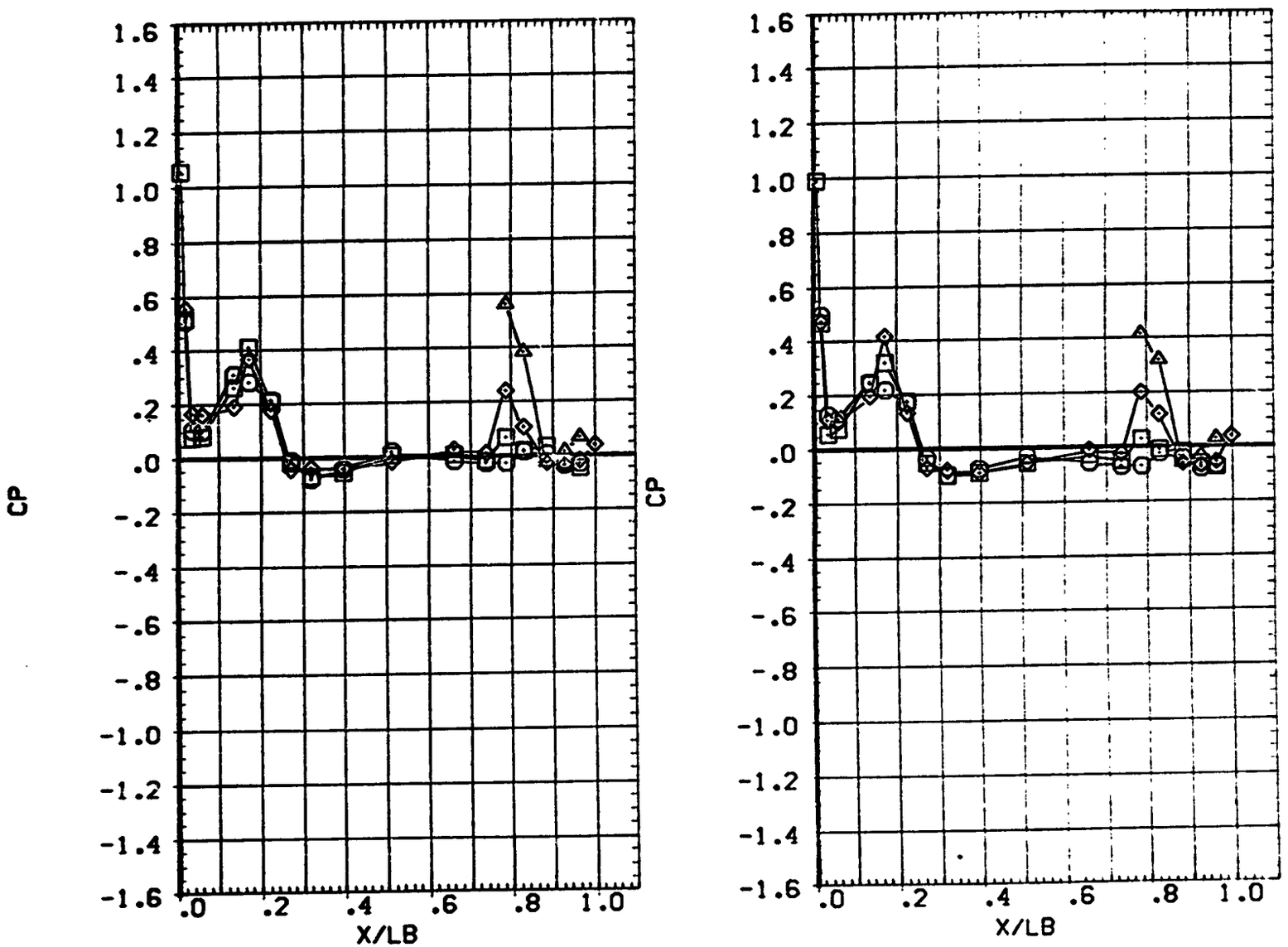
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B01)

SYMBOL	PHI	ALPHAT	MACH
○	70.000	-4.250	2.000
□	90.000	-.160	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



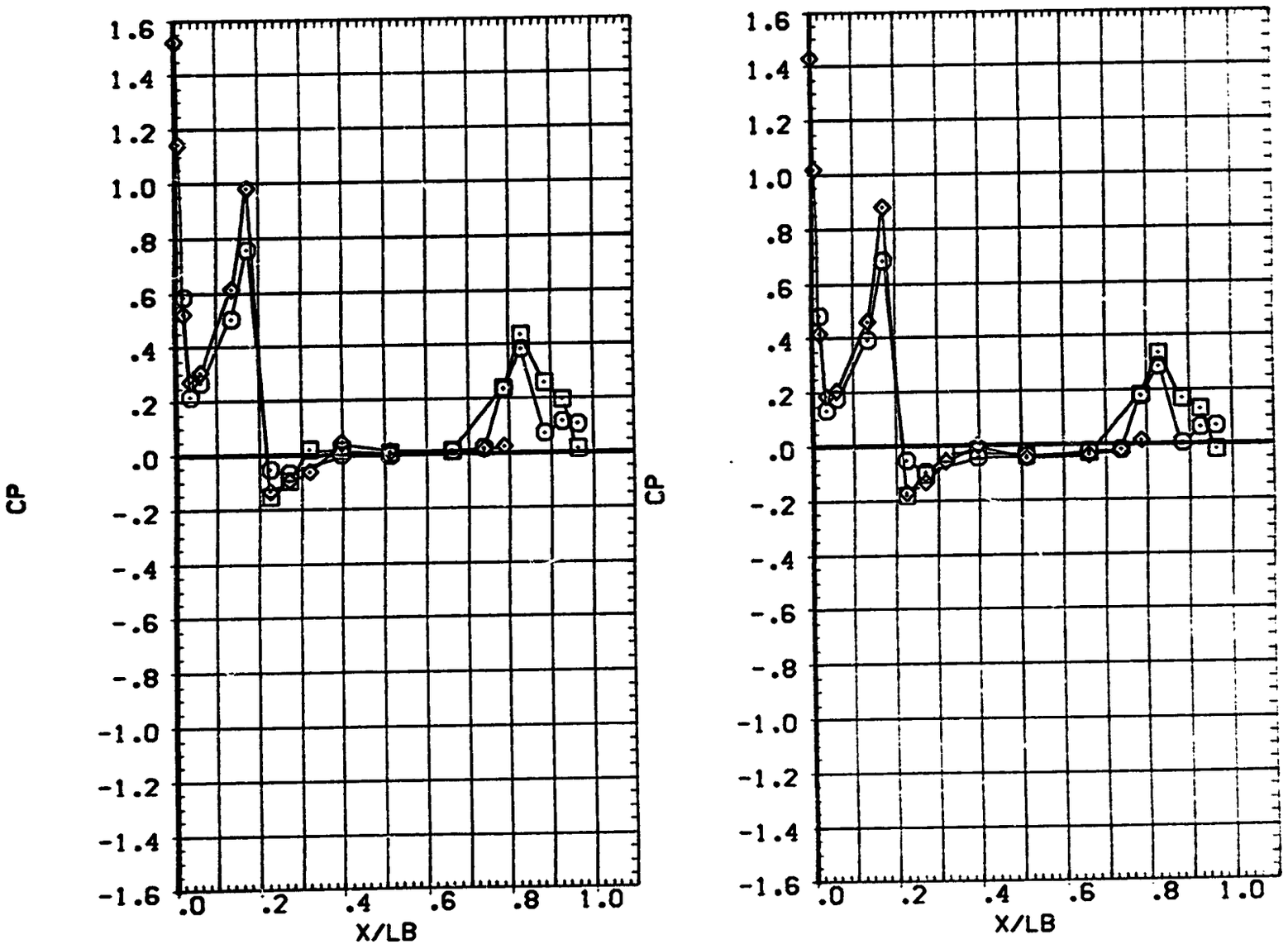
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B01)

SYMBOL	PHI	ALPHAT	MACH
○	150.000	-4.250	2.000
□	165.000	-.160	
◇	180.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



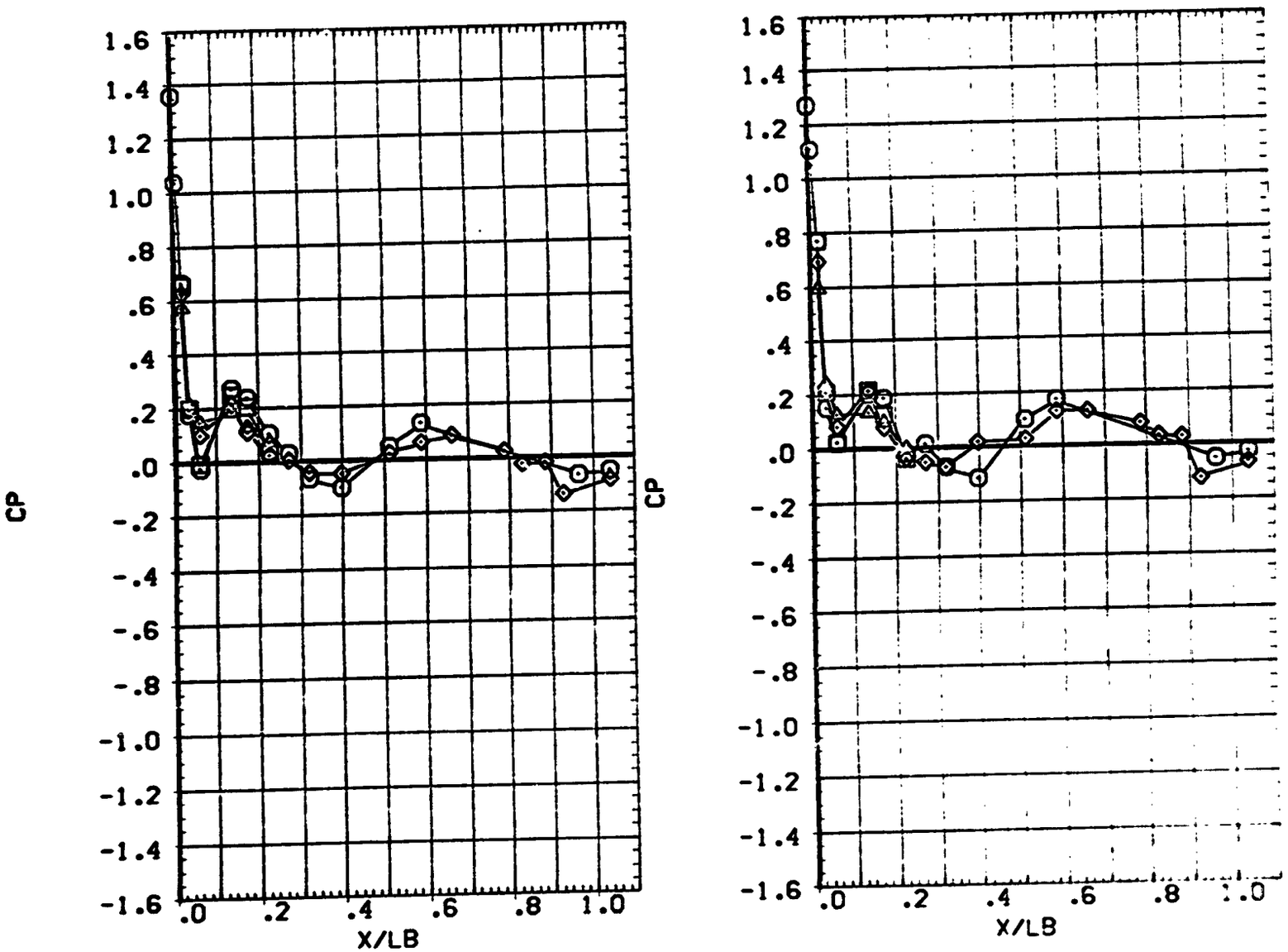
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (R3030:)

SYMBOL	PHI	ALPHAT	MACH
○	.000	3.930	2.000
□	20.000	8.020	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

BETA	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



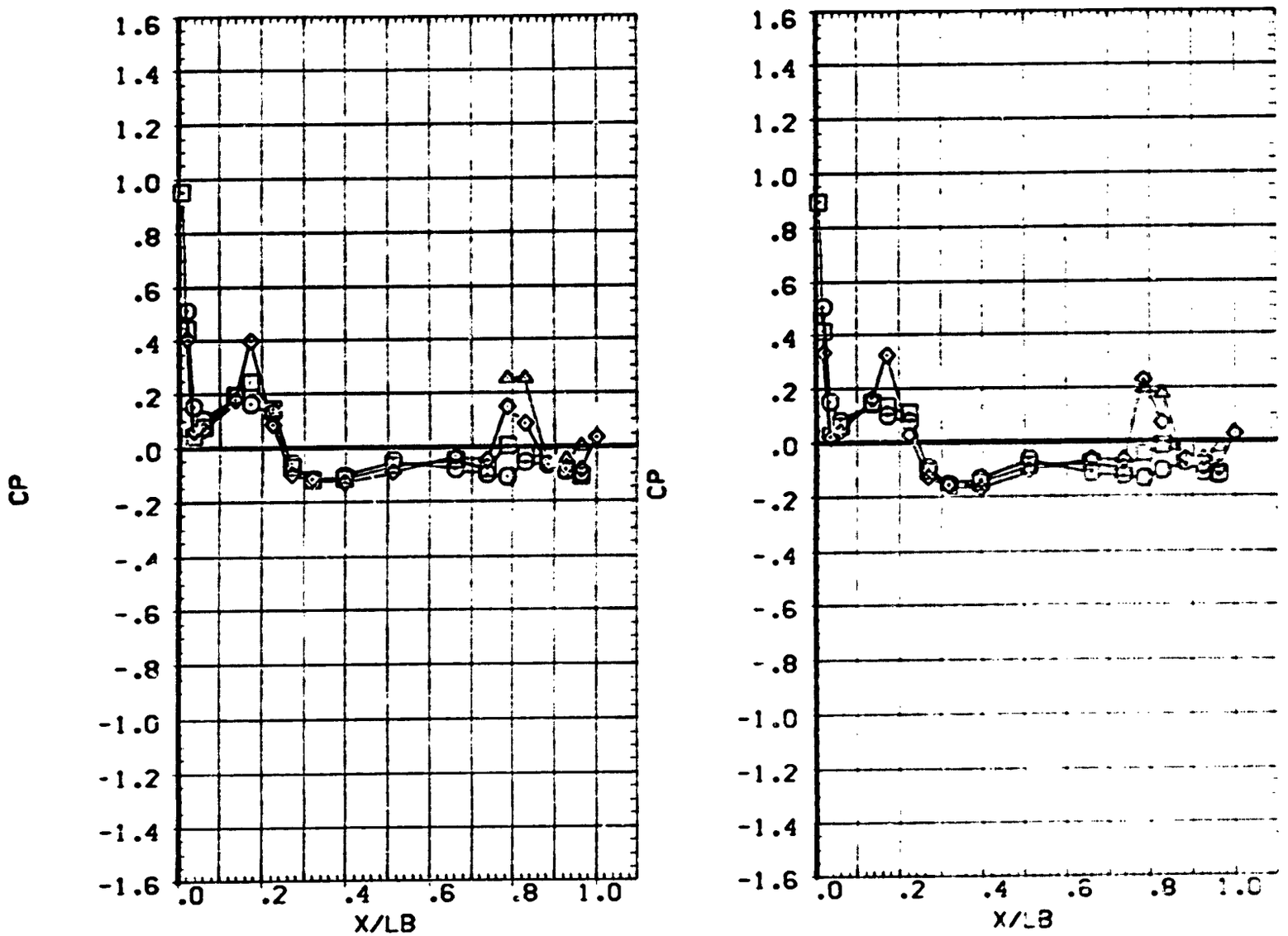
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB33C:)

SYMBOL	PHI	ALPHAT	MACH
○	70.000	3.930	2.000
□	90.000	8.020	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

BETA	.000	BODY NO	.500
RUDDER	.000	ELEVON	.000
FLAP	.000		



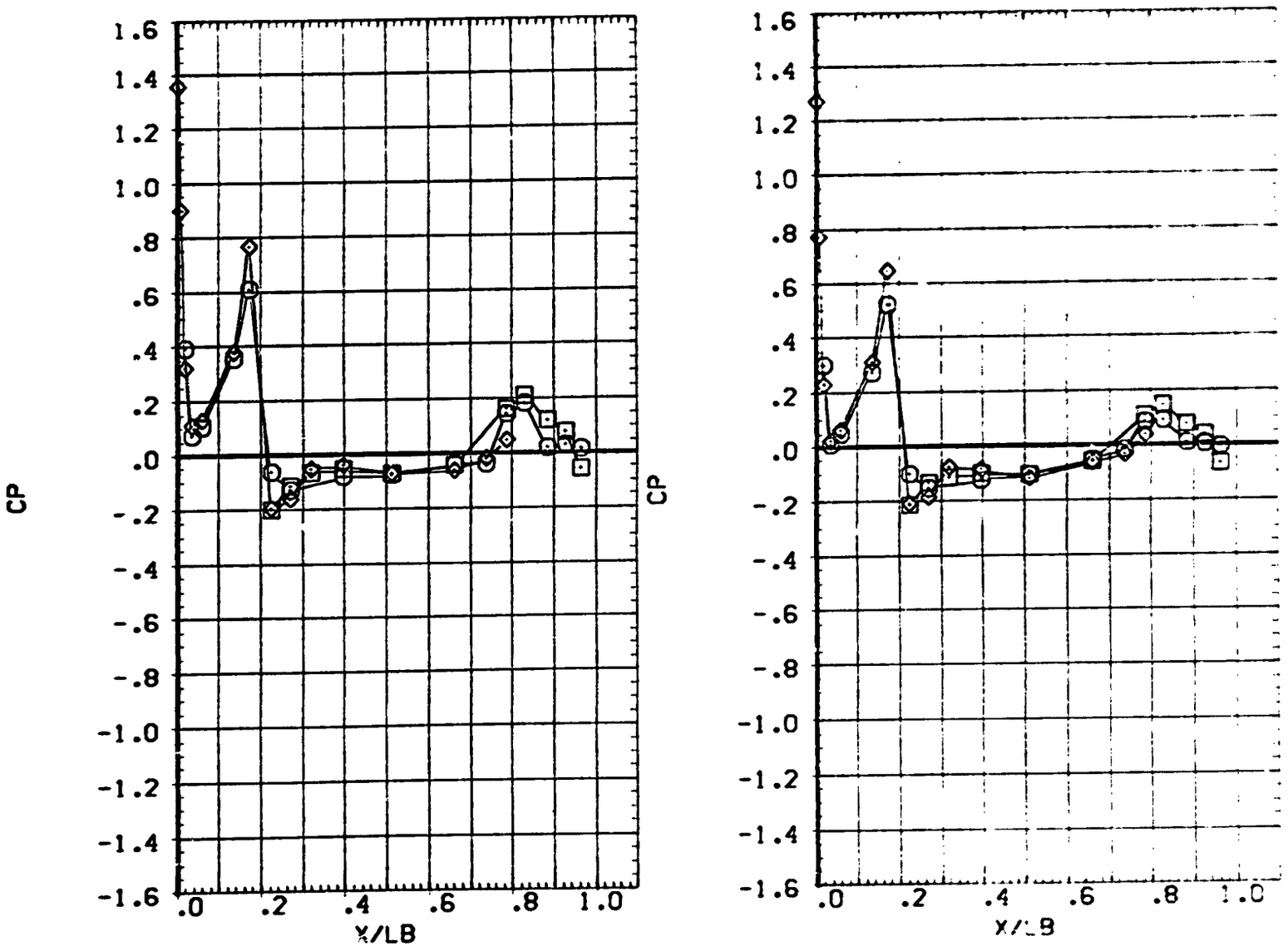
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBCB01)

SYMBOL	PHI	ALPHAT	MACH
○	150.000	3.930	2.000
□	165.000	8.020	
◇	180.000		

PARAMETRIC VALUES

BETAT	.000	OPENC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



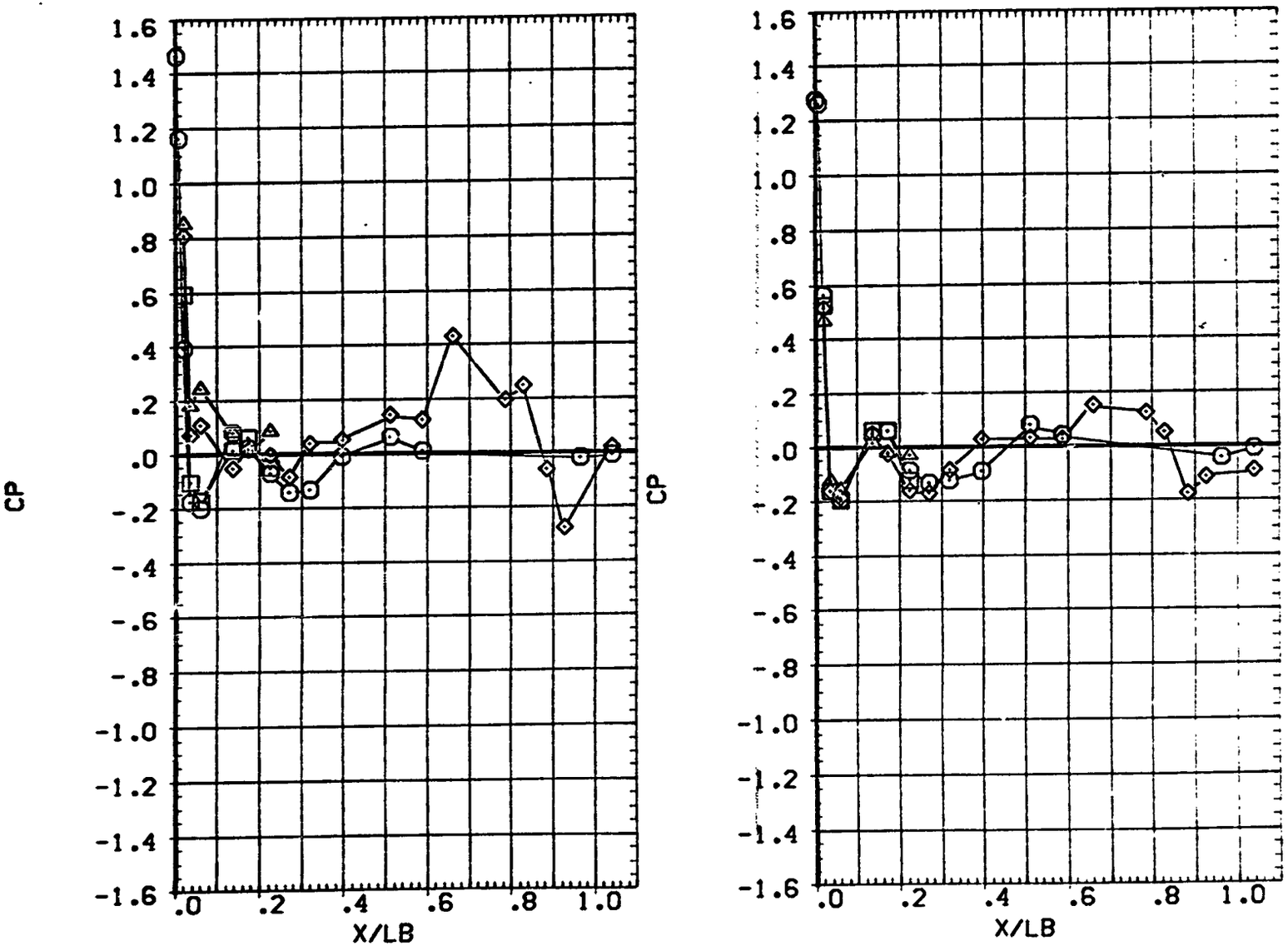
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0802)

SYMBOL	PHI	BETAT	MACH
○	.000	-5.100	1.555
□	20.000	5.110	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



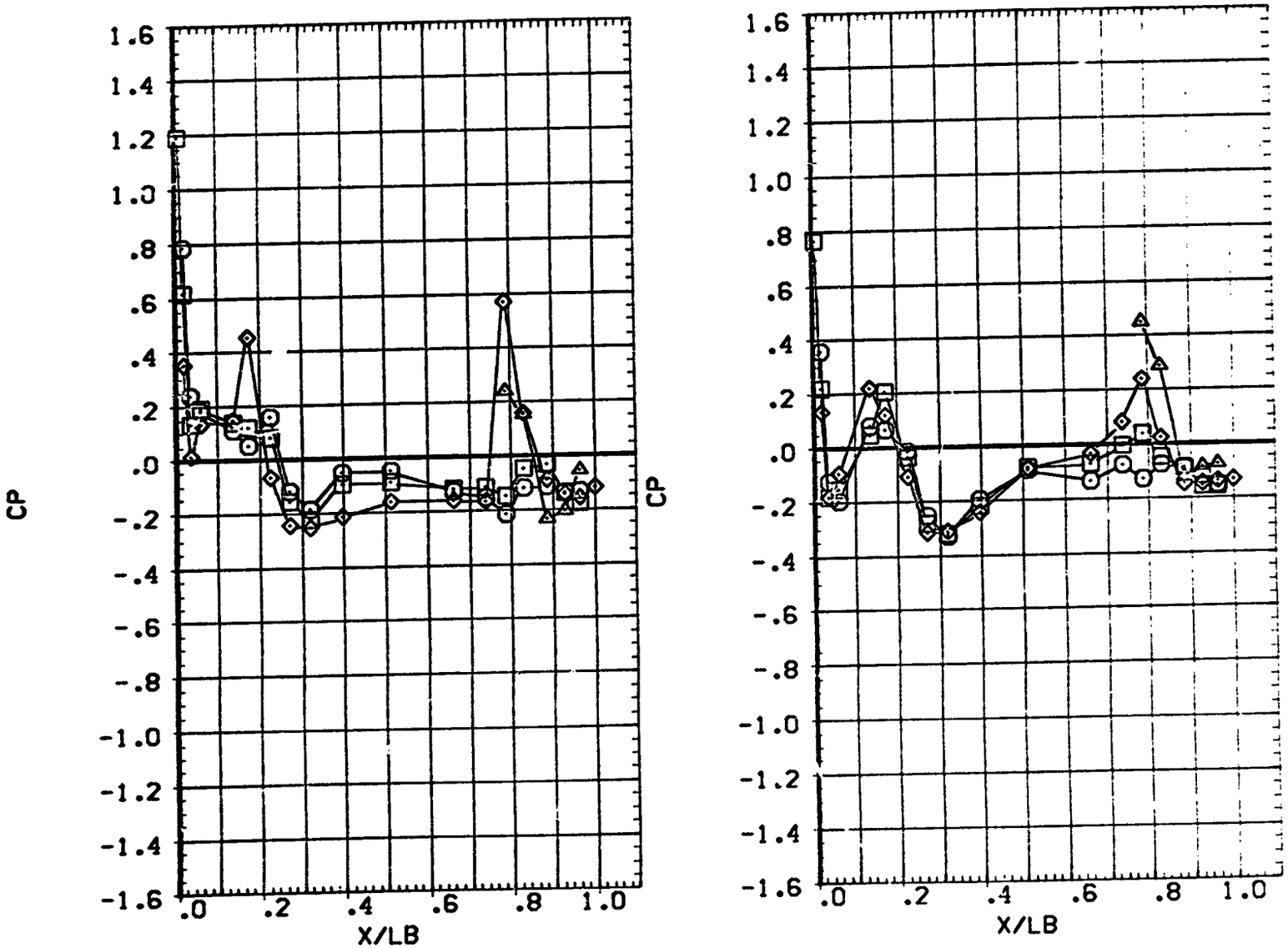
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBUBU2)

SYMBOL	PHI	BETAT	MACH
○	70.000	-5.100	1.555
□	90.000	5.110	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



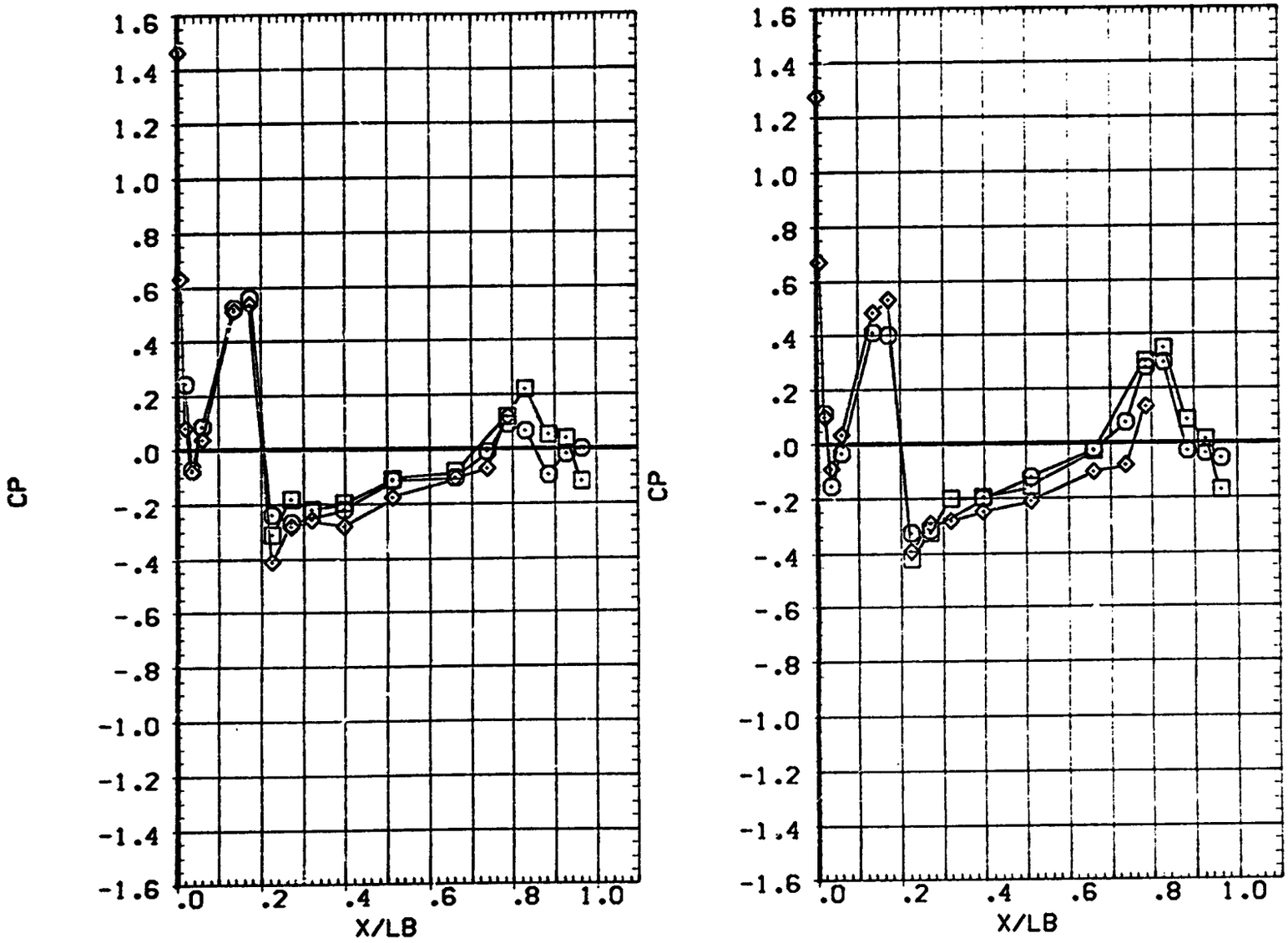
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBCBC2)

SYMBOL	PHI	BETAT	MACH
○	150.000	-5.100	1.555
□	165.000	5.110	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



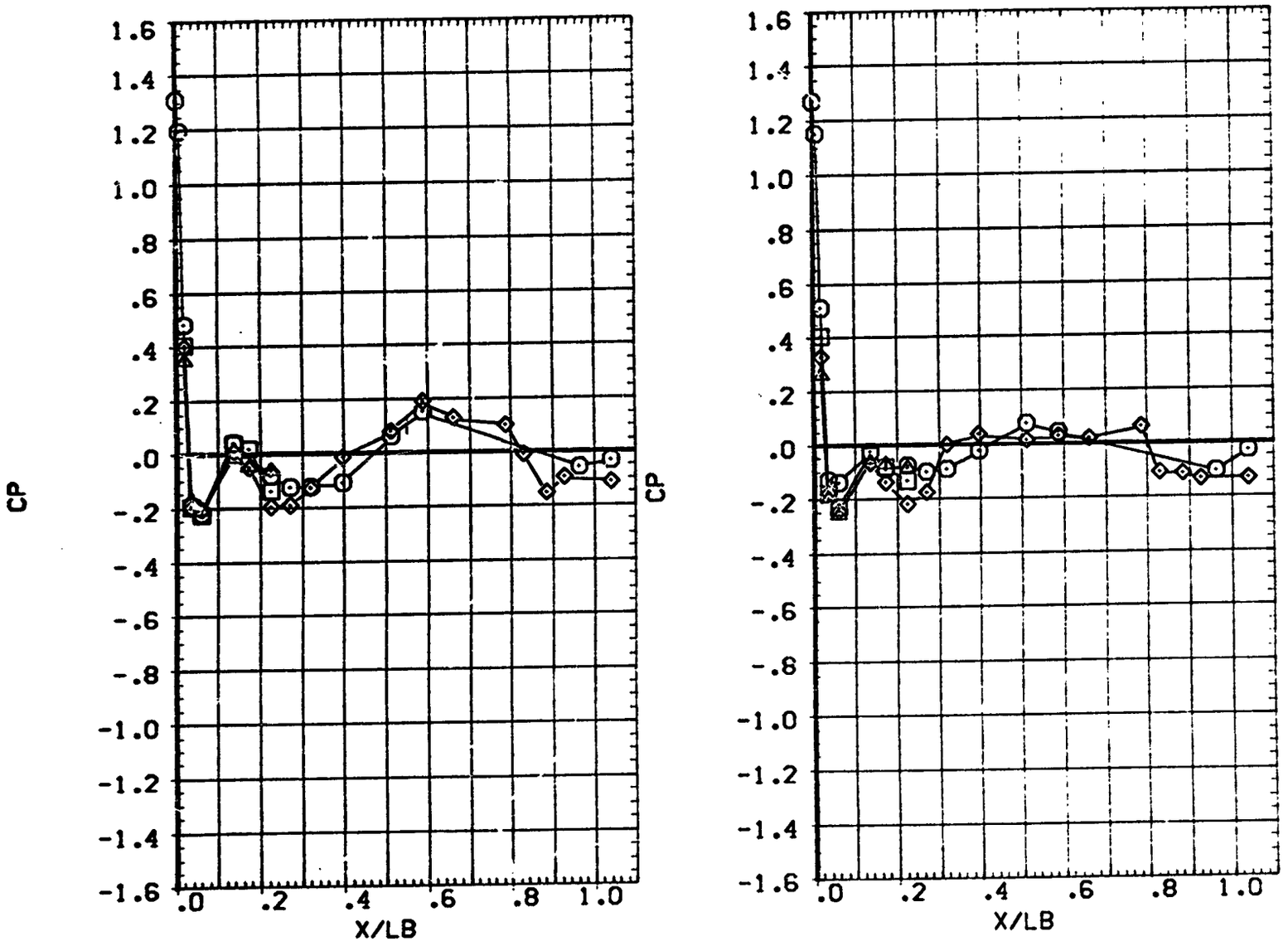
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B02)

SYMBOL	PHI	BETAT	MACH
○	.000	7.140	1.555
□	20.000	9.190	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



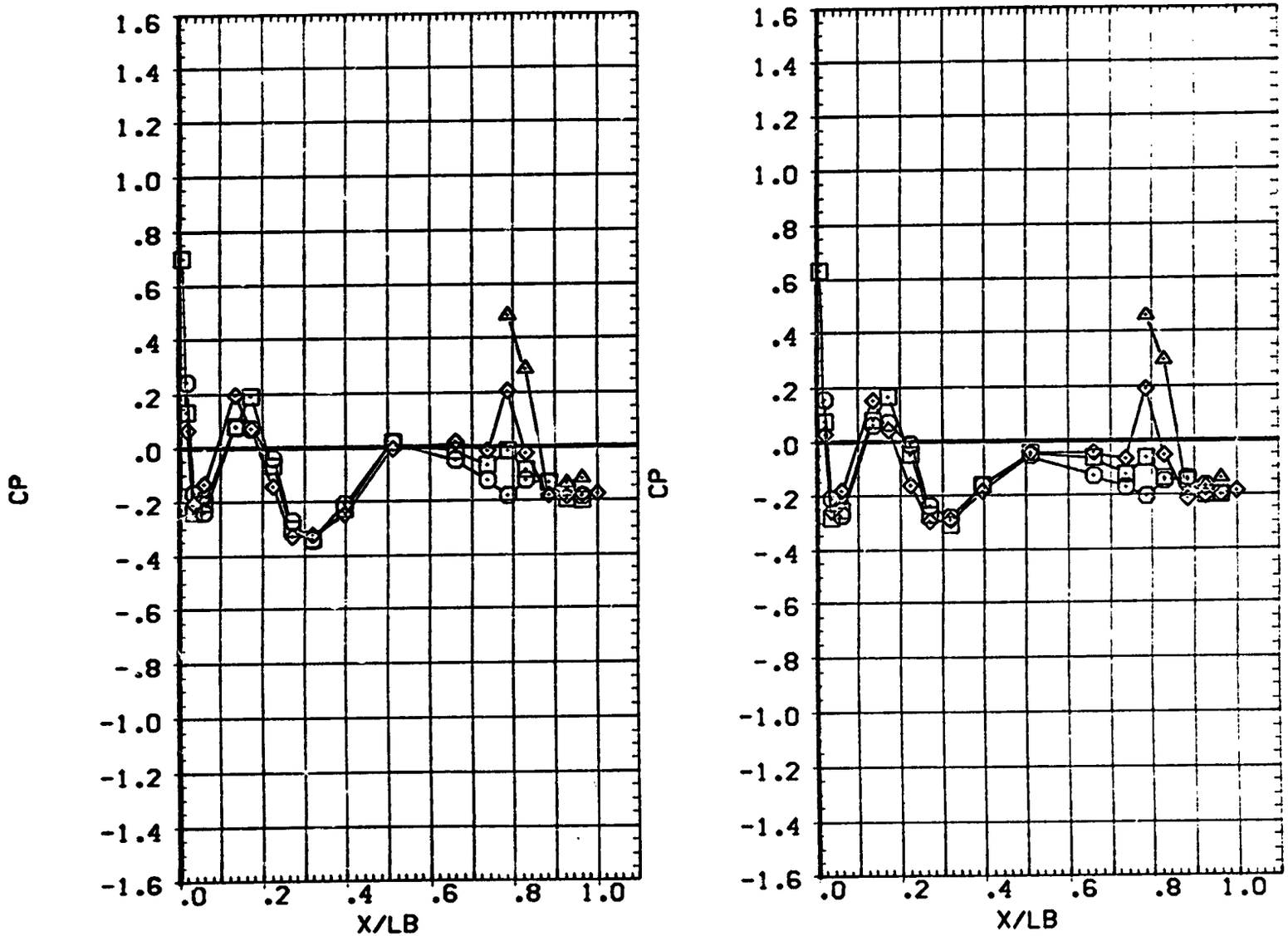
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B02)

SYMBOL	PHI	BETAT	MACH
○	70.000	7.140	1.555
□	90.000	9.190	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



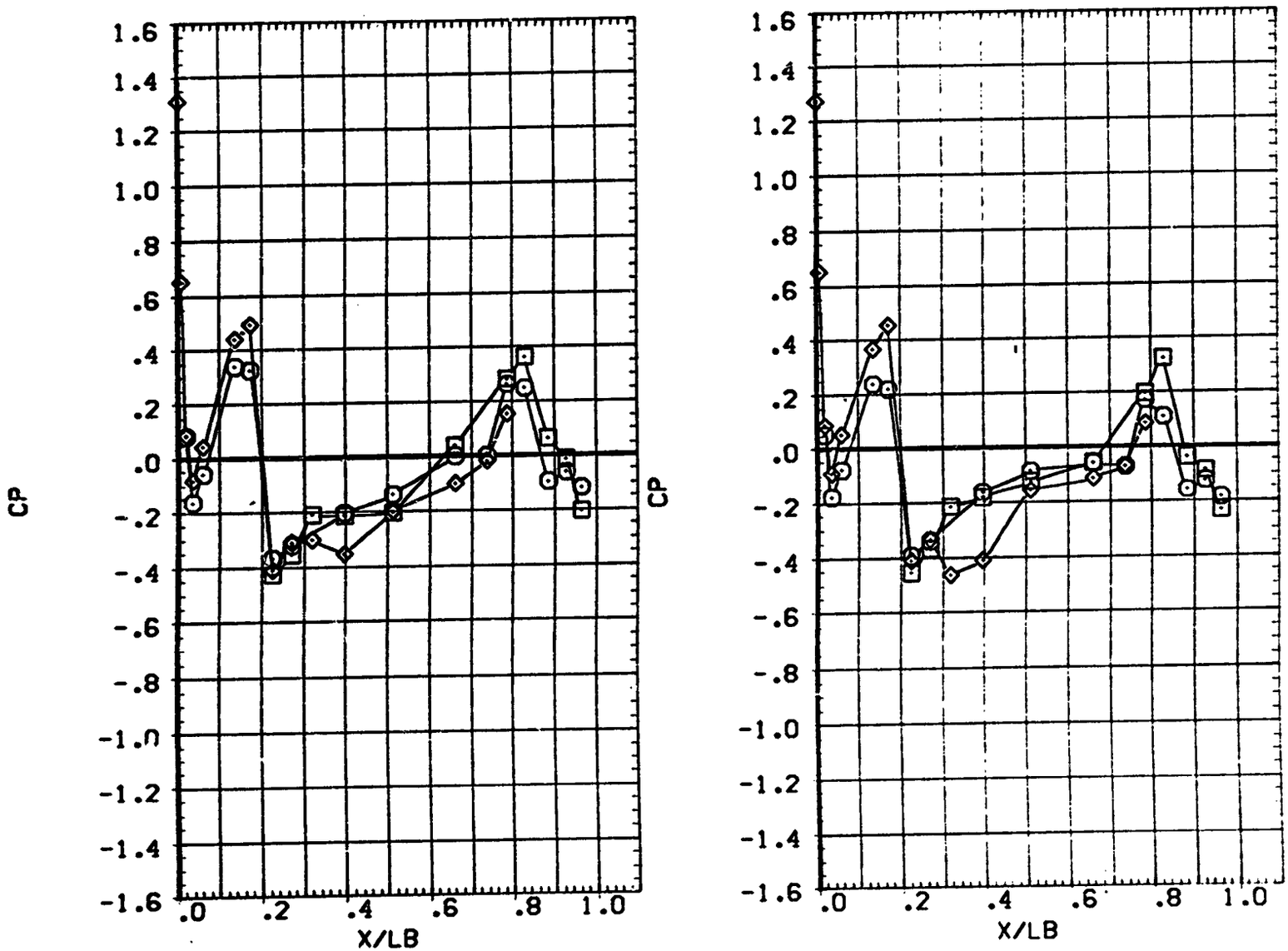
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB03C2)

SYMBOL	PHI	BETAT	MACH
○	150.000	7.140	1.555
□	165.000	9.190	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



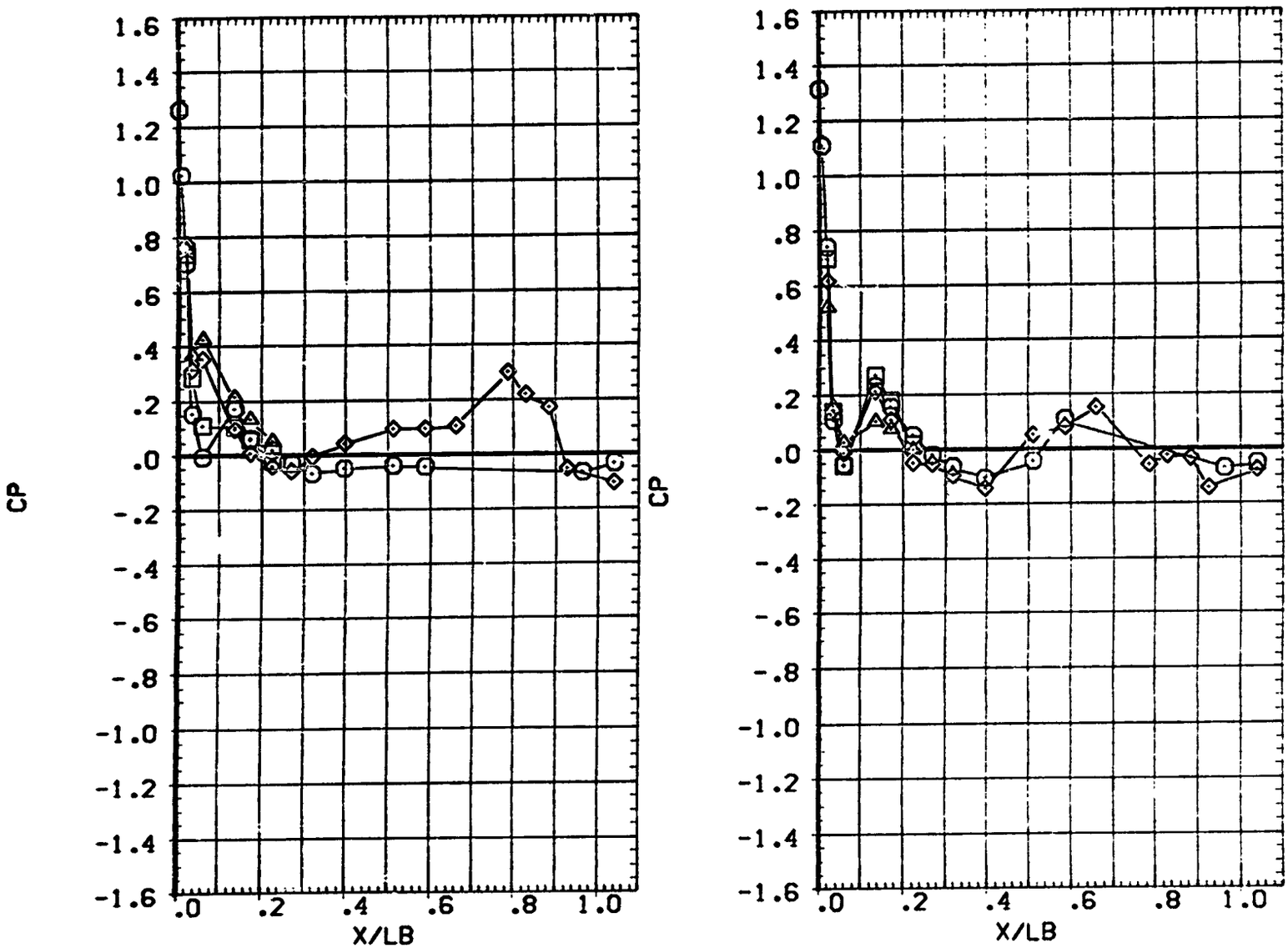
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBCBC2)

SYMBOL	PHI	BETAT	MACH
○	.000	-6.270	2.000
□	20.000	3.990	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



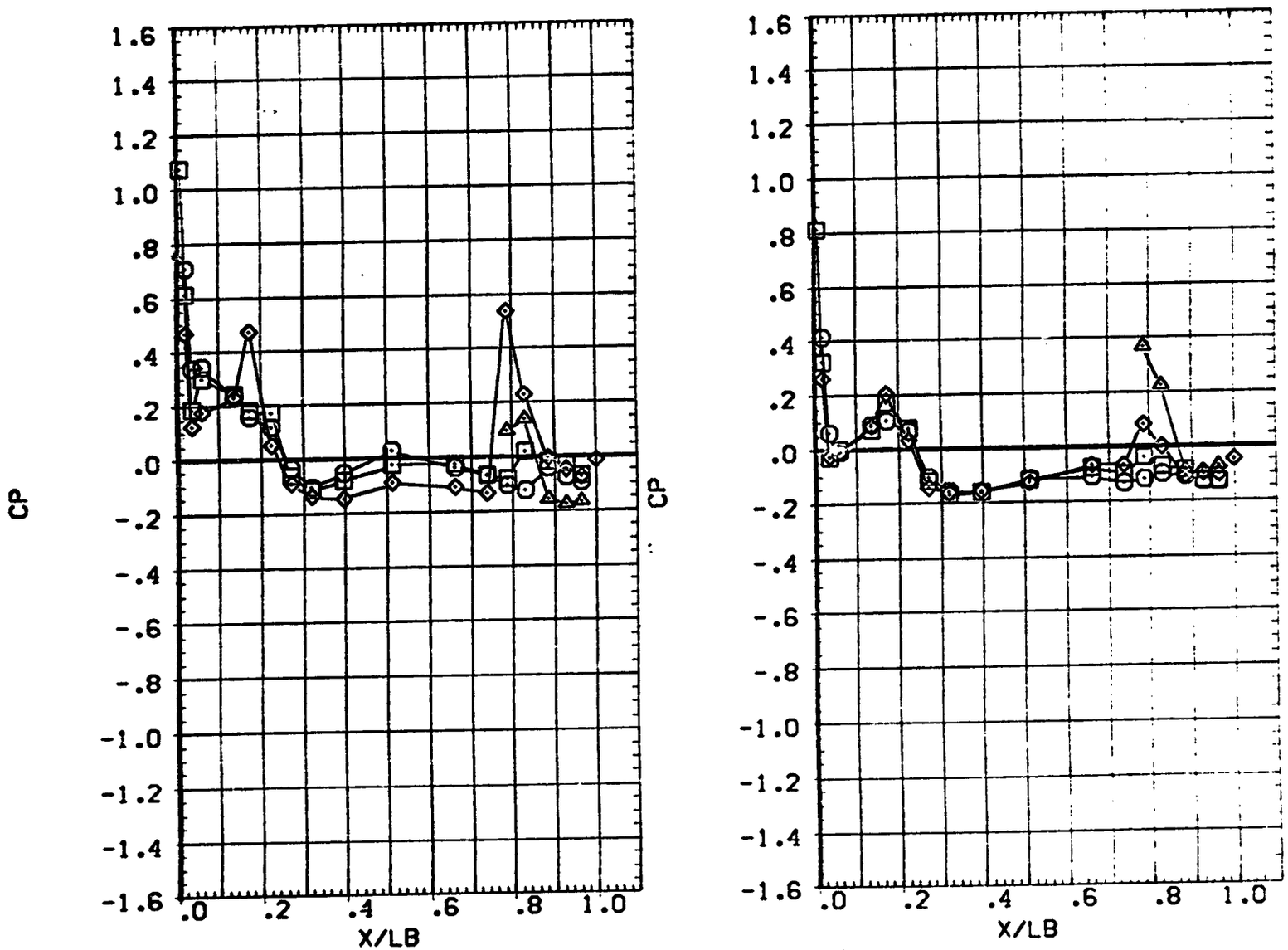
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B02)

SYMBOL	PHI	BETAT	MACH
○	70.000	-6.270	2.000
□	90.000	3.990	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



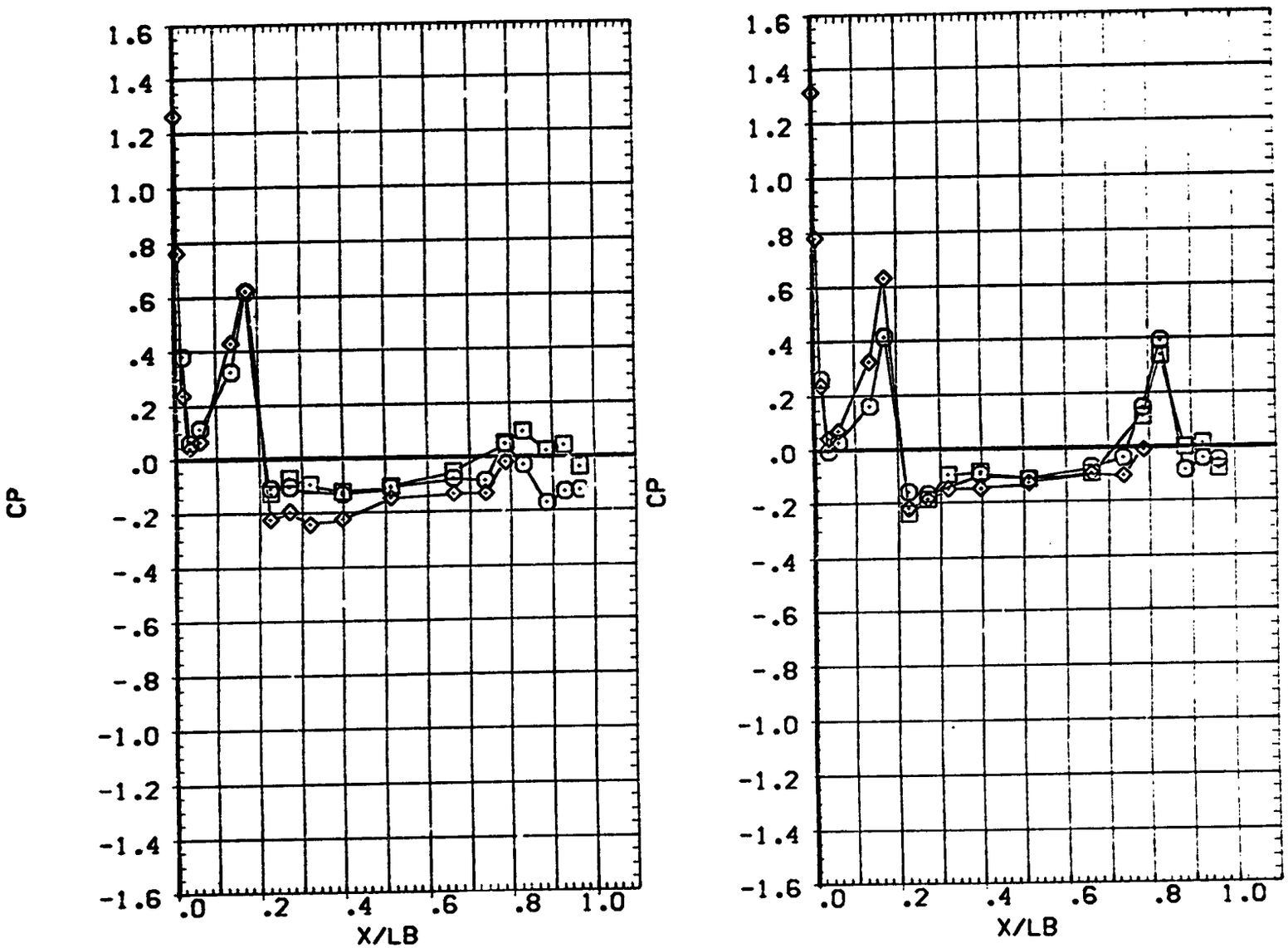
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-7C7 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B02)

SYMBOL	PHI	BETAT	MACH
○	150.000	-6.270	2.000
□	165.000	3.990	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



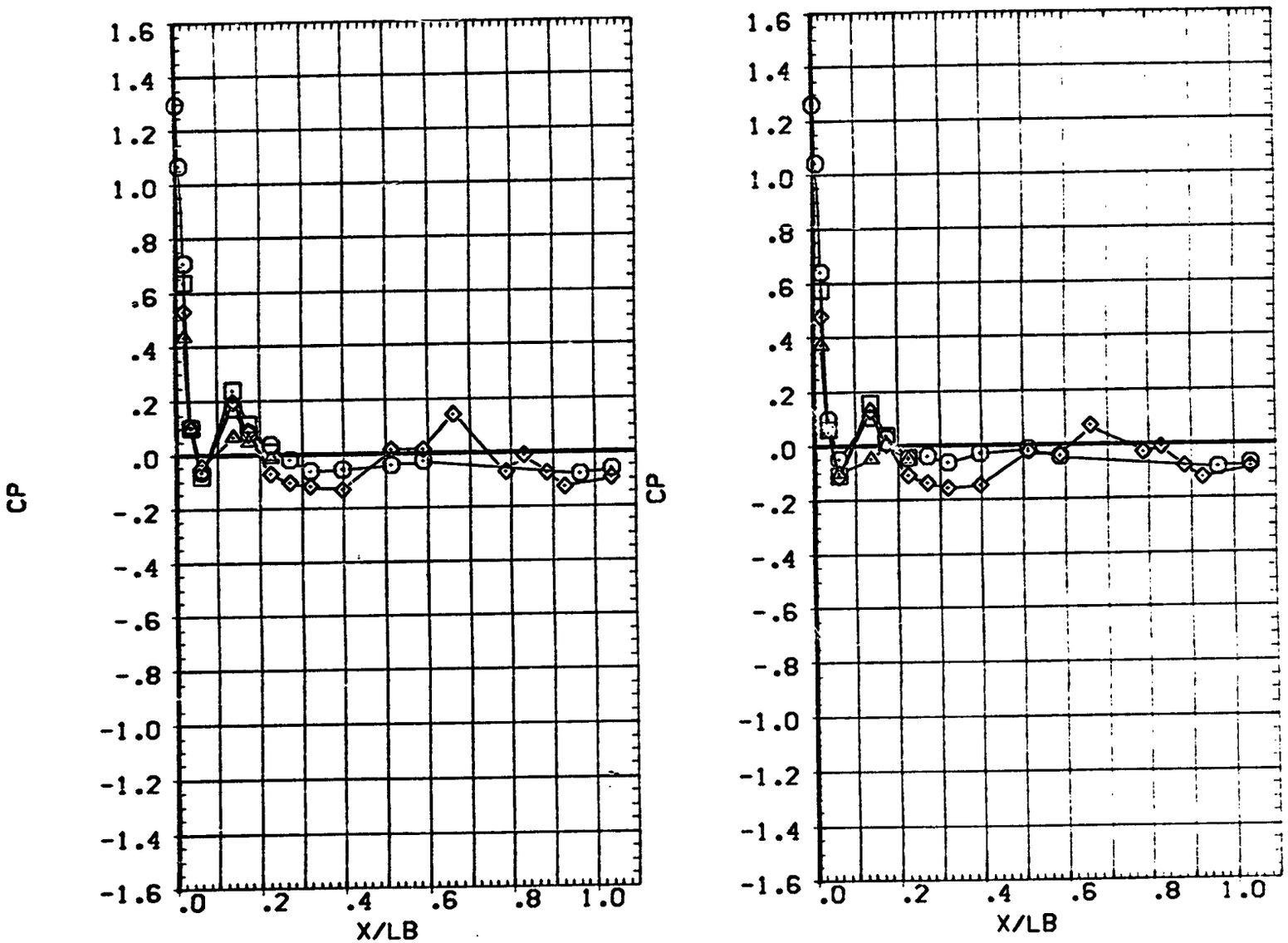
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RB0B02)

SYMBOL	PHI	BETAT	MACH
○	.000	6.060	2.000
□	20.000	8.120	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	8.000	SPEINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



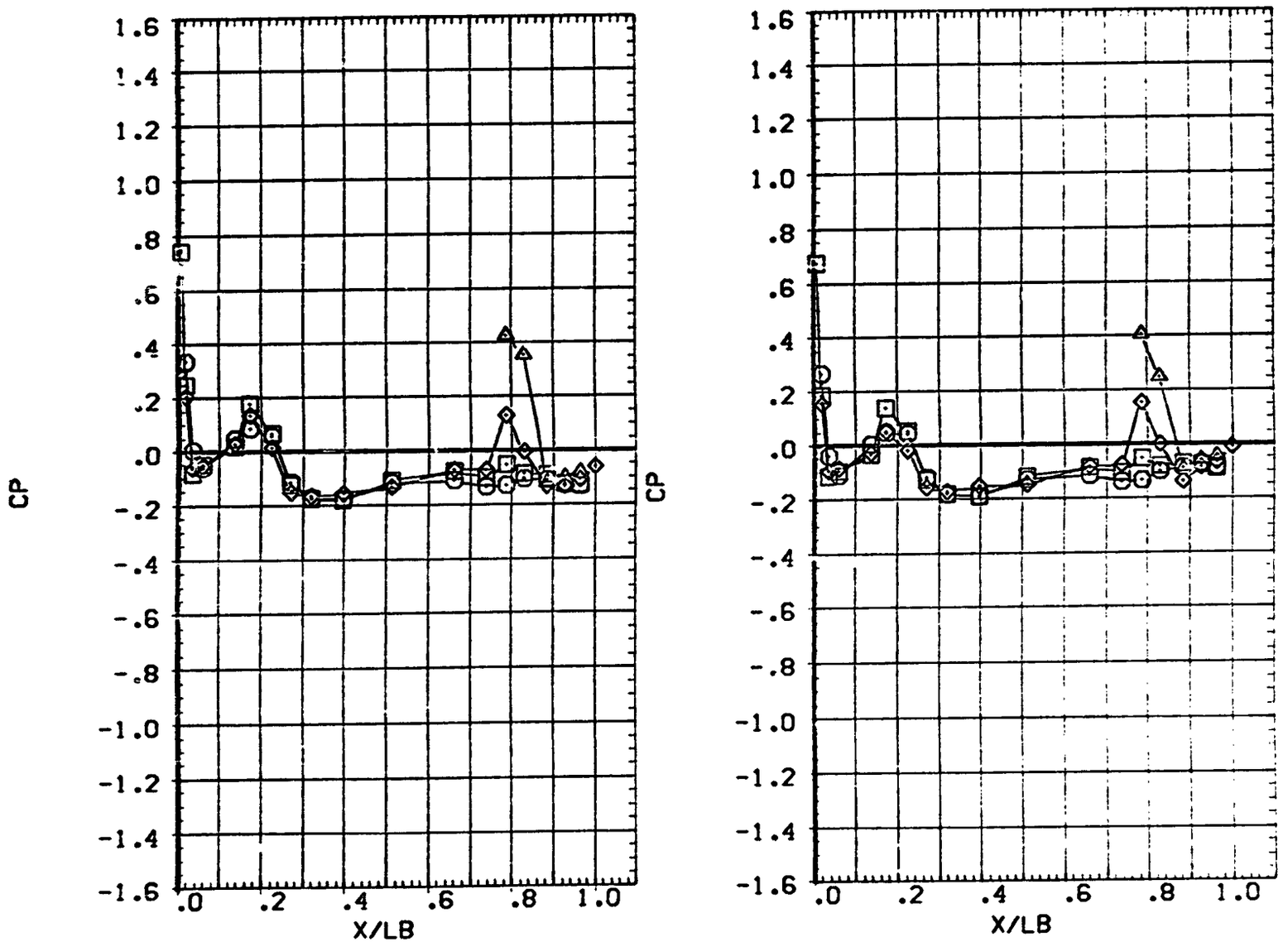
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B02)

SYMBOL	PHI	BETAT	MACH
○	70.000	6.060	2.000
□	90.000	8.120	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



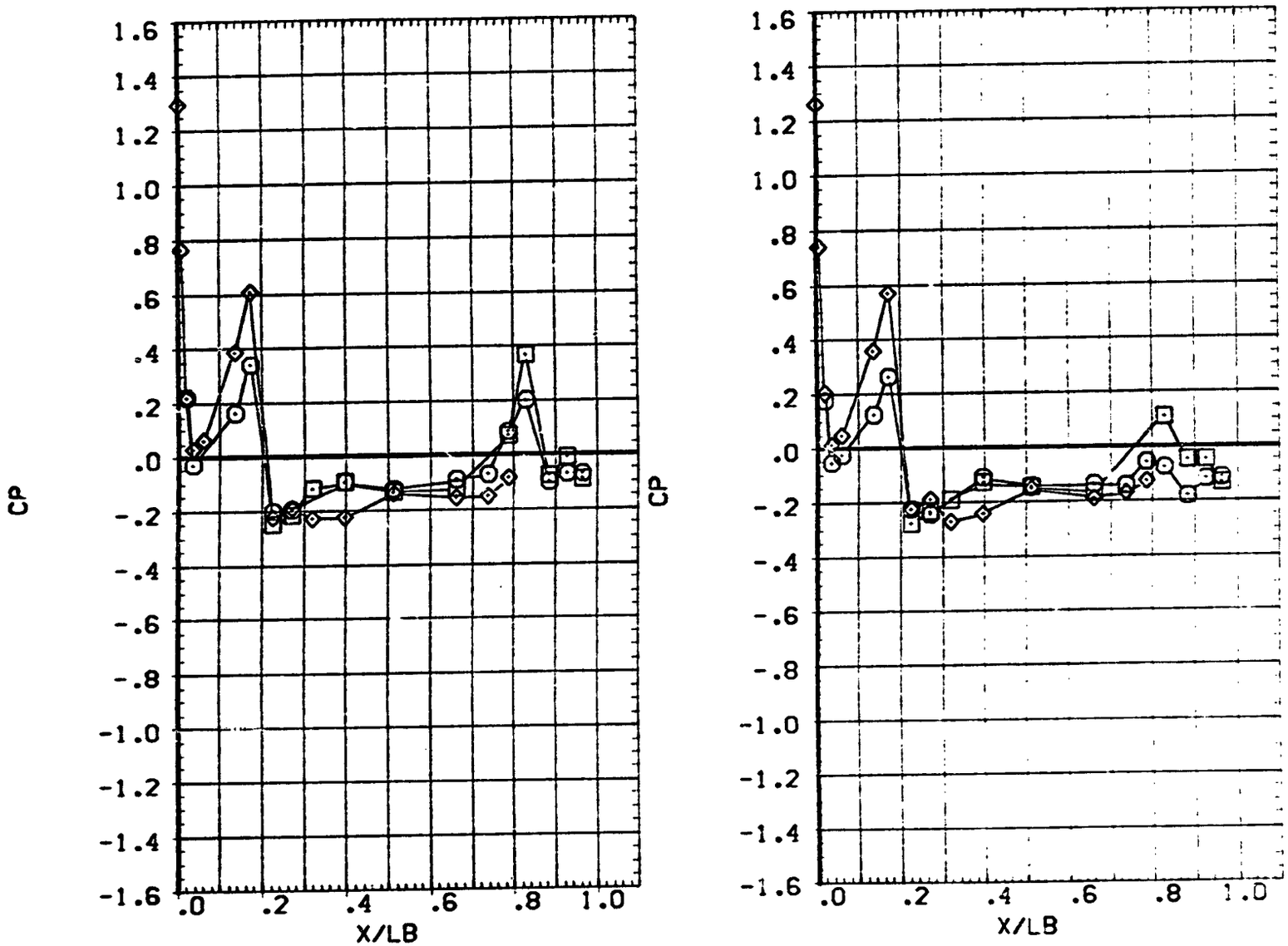
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBCB02)

SYMBOL	PHI	BETAT	MACH
○	150.000	6.060	2.000
□	165.000	9.120	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



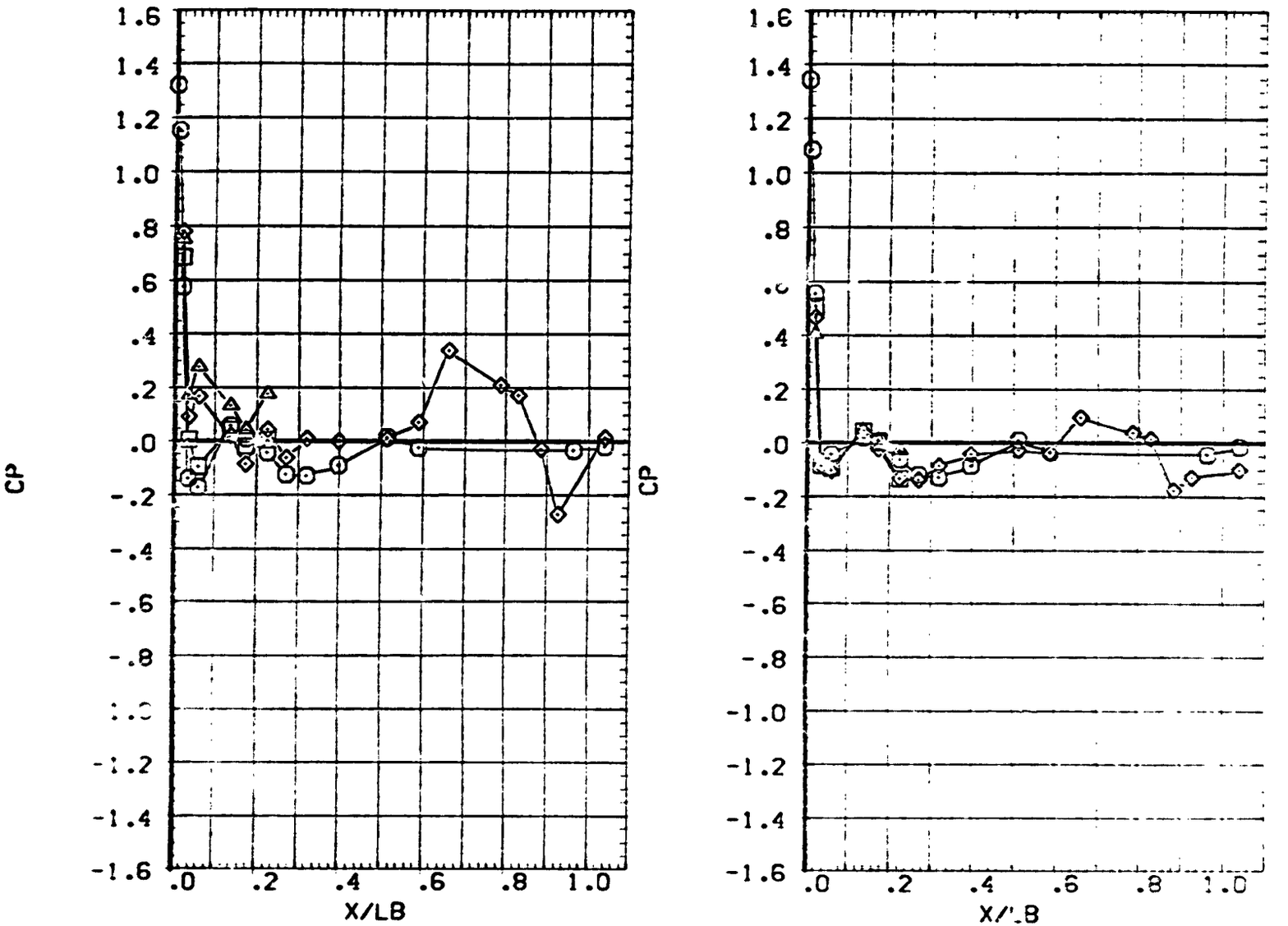
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB03C4)

SYMBOL	PHI	BETAT	MACH
○	.000	-5.070	1.555
□	20.000	5.060	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDEP	.000	ELEVON	.000
RUDFLR	.000		



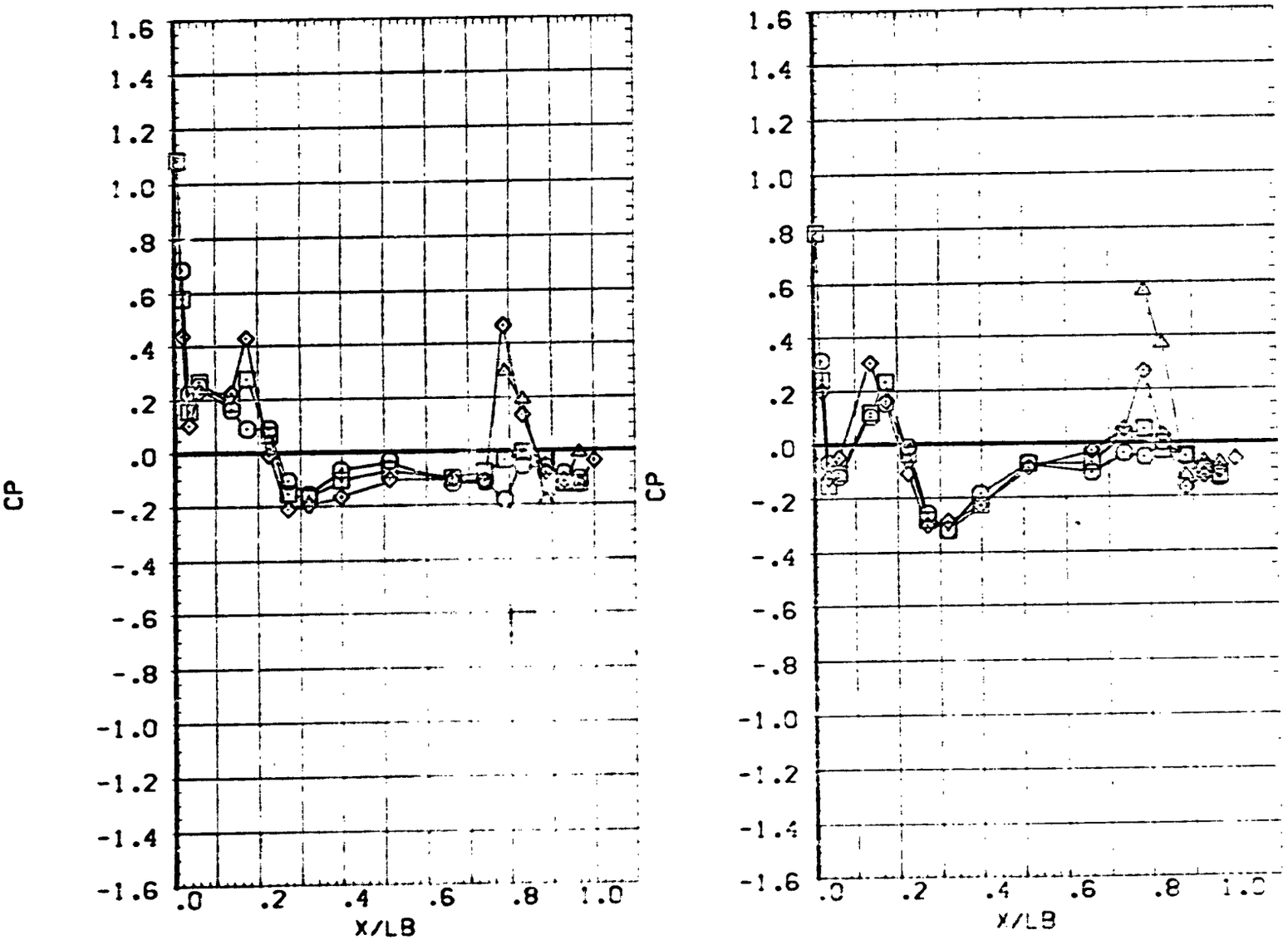
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B04)

SYMBOL	PHI	BETAT	MACH
○	70.000	-5.070	1.555
□	90.000	5.060	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	4.000	ORBITER	.000
RUDDER	.000	ELEVON	.000
DELR	.000		



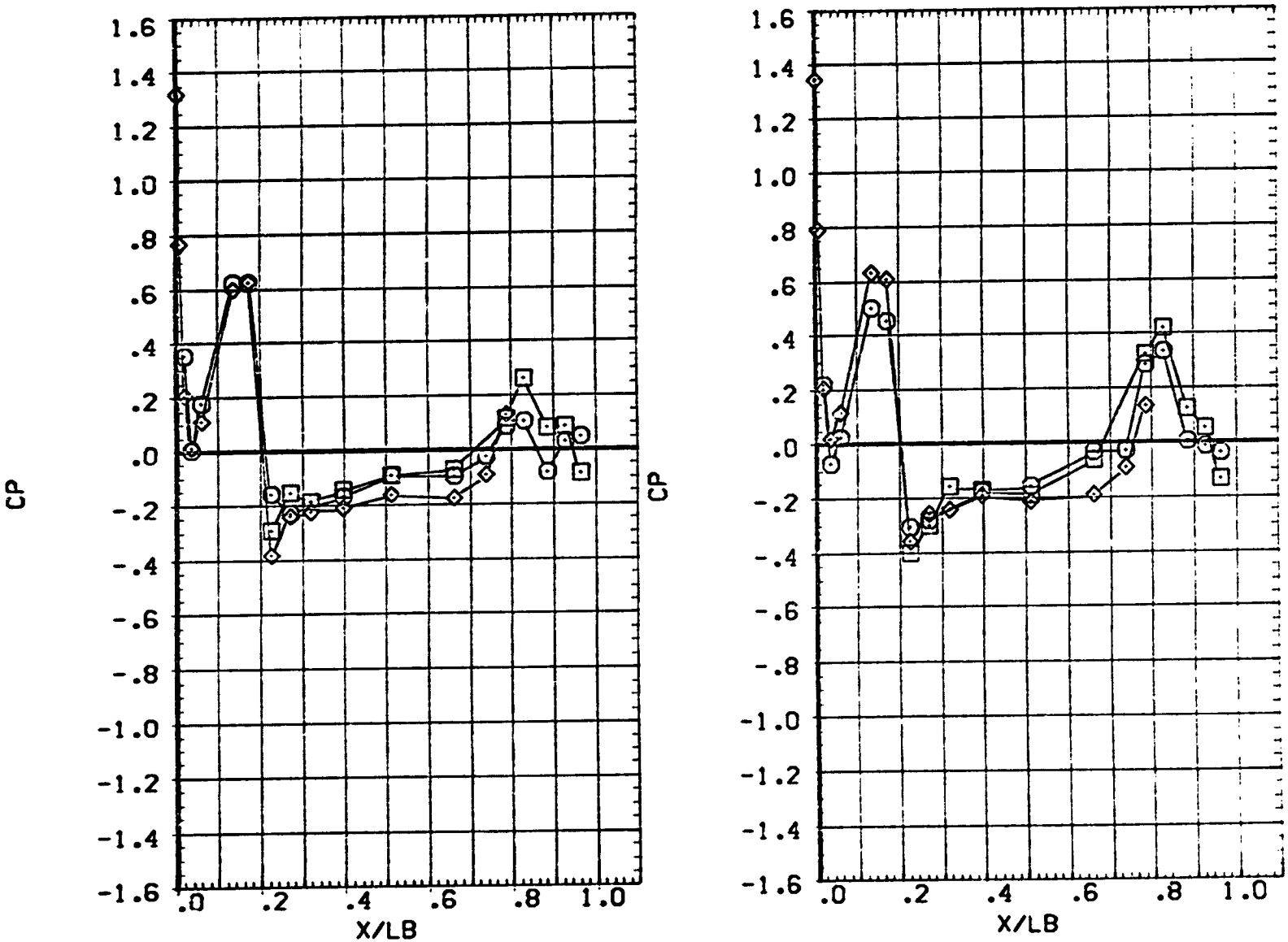
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B04)

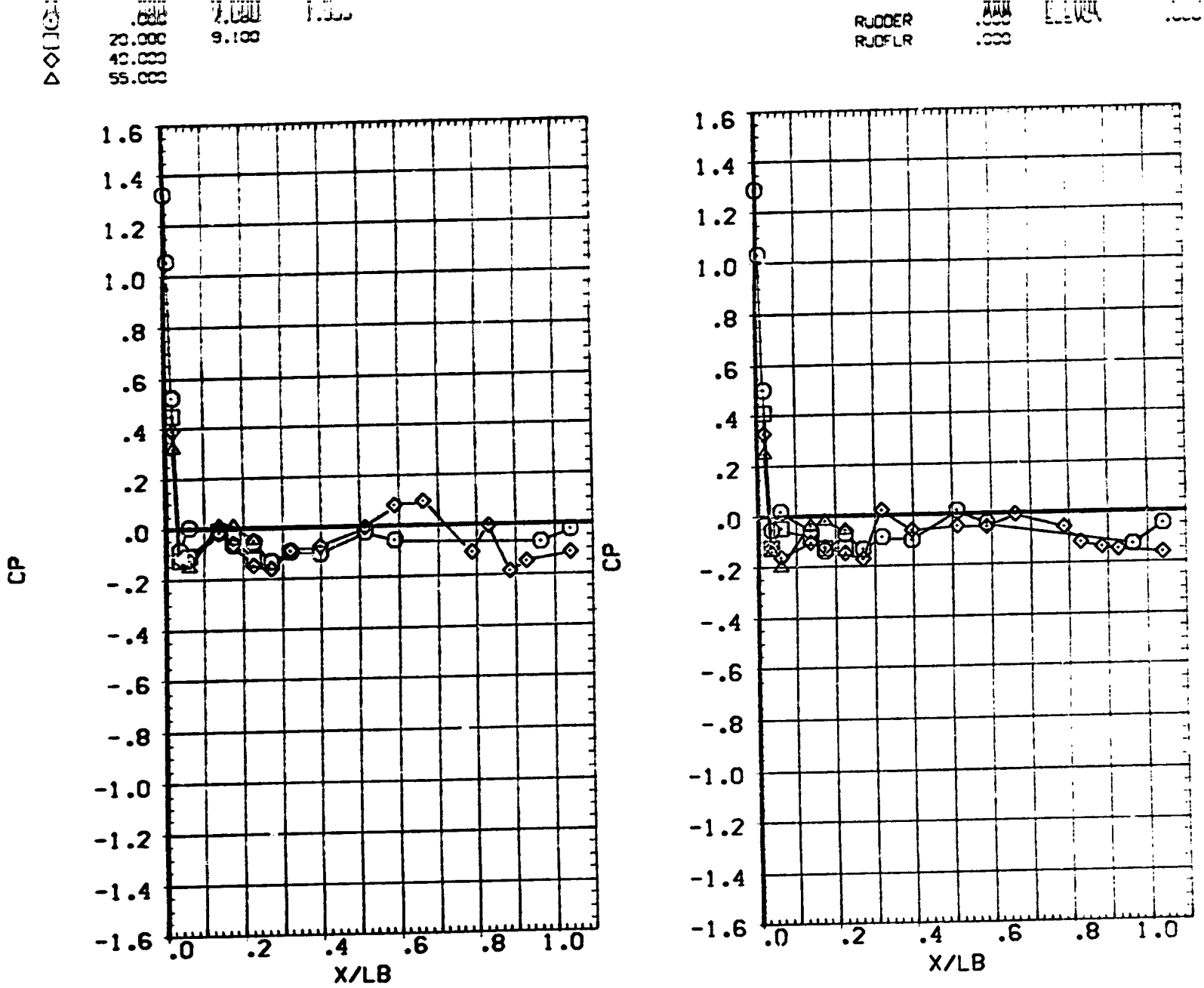
SYMBOL	PHI	BETAT	MACH
○	150.000	-5.070	1.555
□	165.000	5.060	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

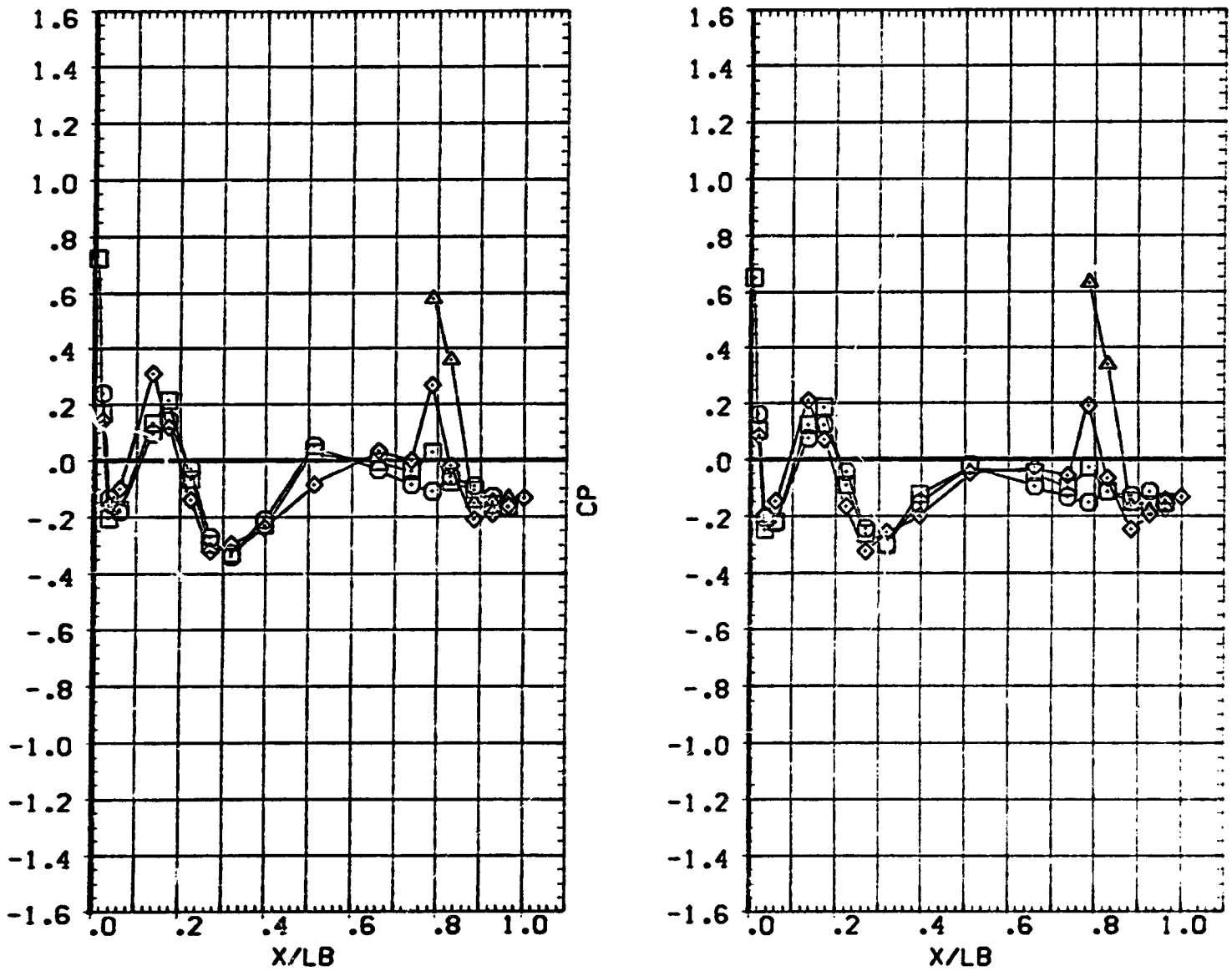


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL	PHI	BETAT	MACH
○	70.000	7.080	1.555
□	90.000	9.100	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

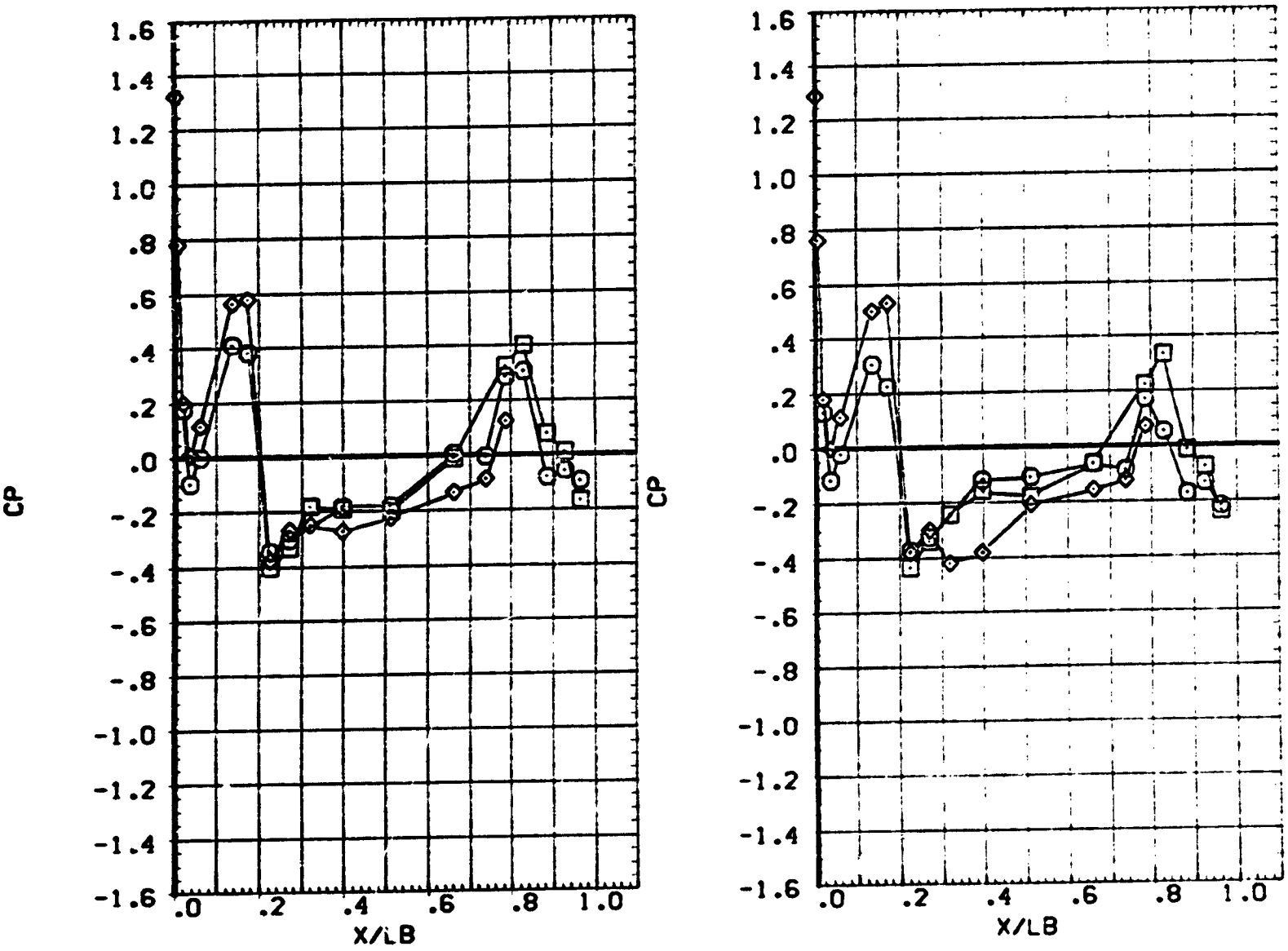


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL	PHI	BETAT	MACH
○	150.000	7.080	1.555
□	165.000	9.100	
◇	180.000		

PARAMETRIC VALUES

ALPHA	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



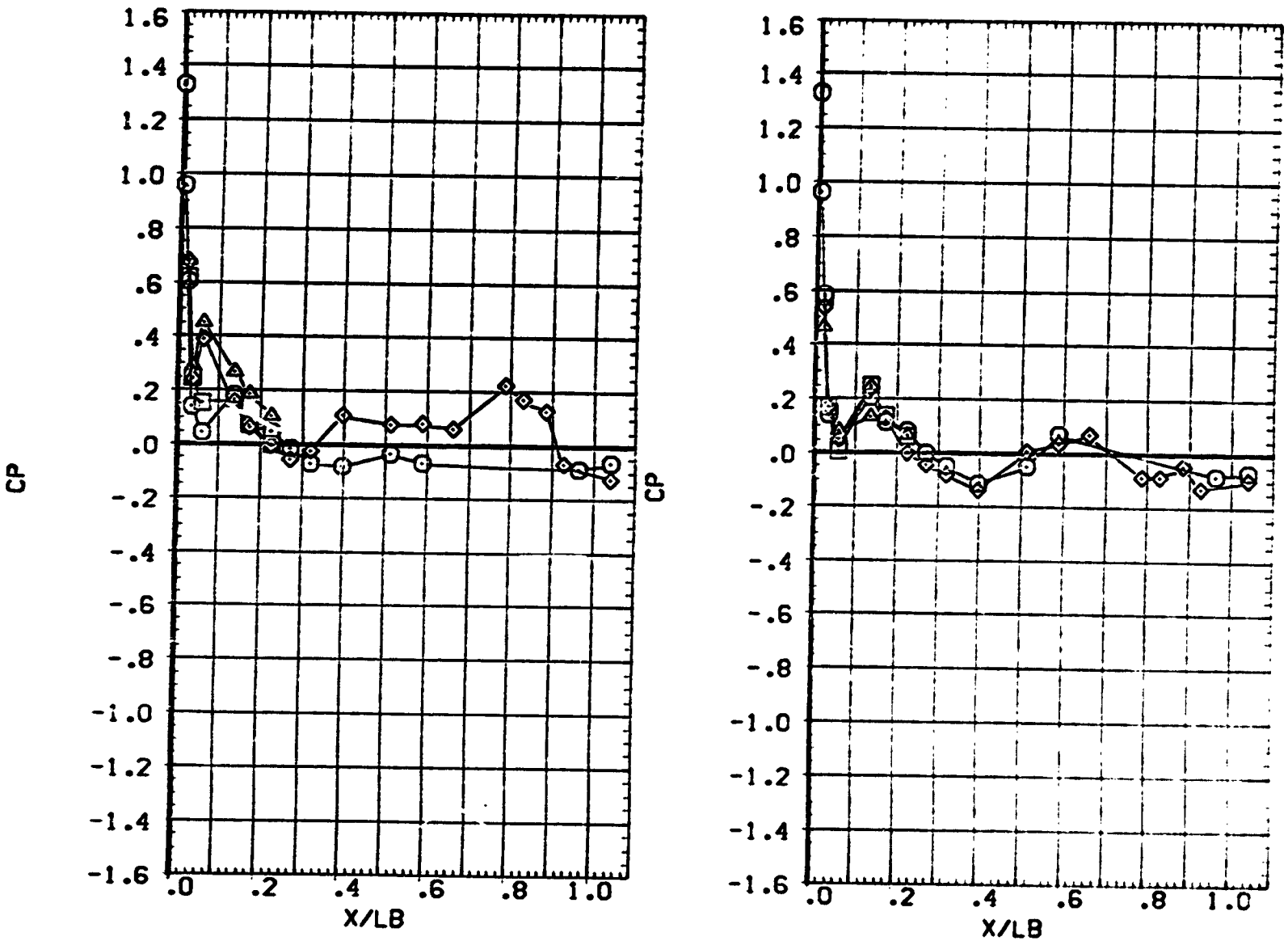
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

[illegible] ORBITER FUSELAGE [illegible]

SYMBOL	PHI	BETAT	MACH
○	.000	-6.240	2.000
□	20.000	3.950	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

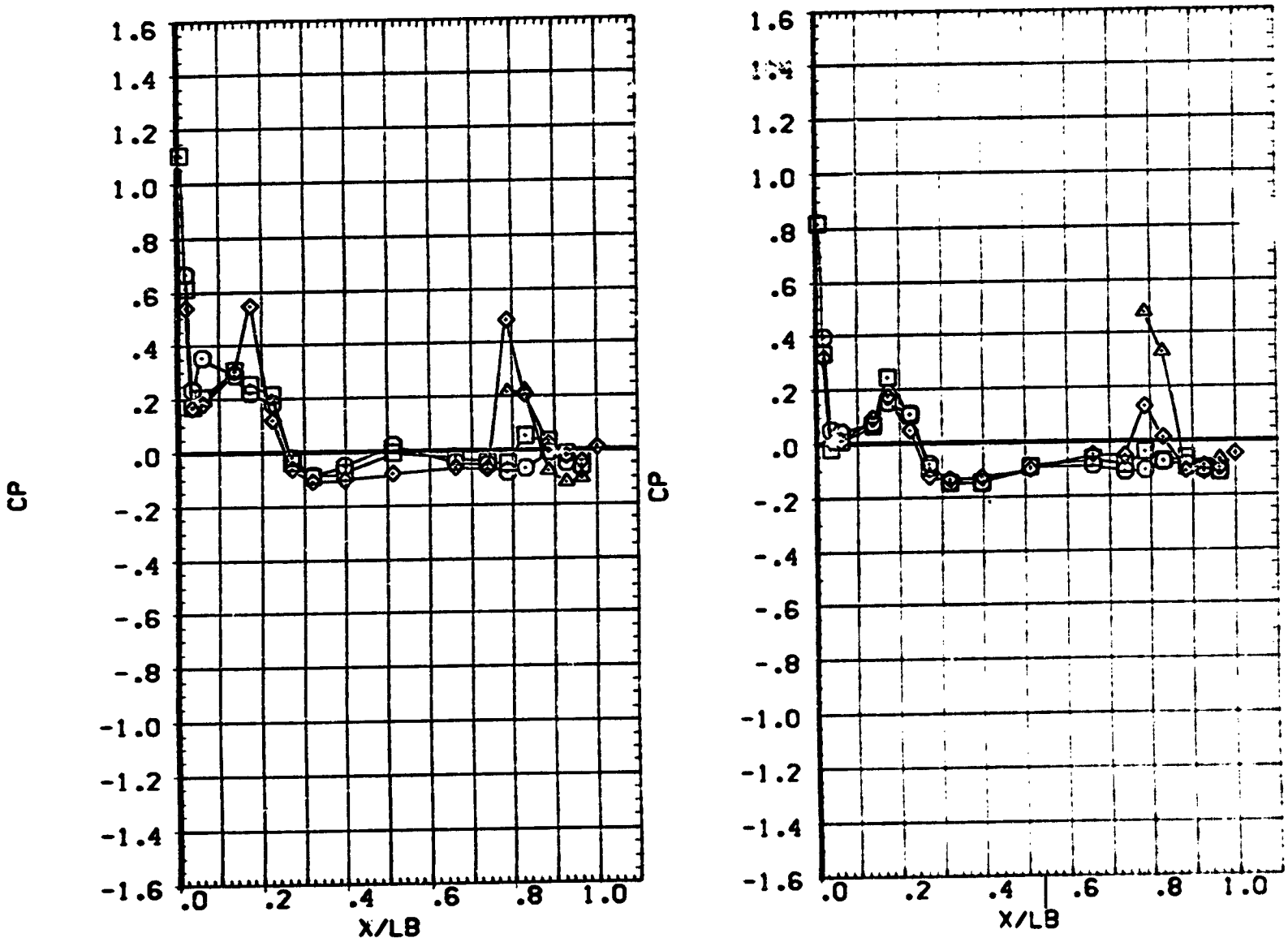
ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

○	70.000	-6.240	2.000
□	90.000	3.950	
◇	120.000		
△	135.000		

RUDDER	.000	ELEVON	.000



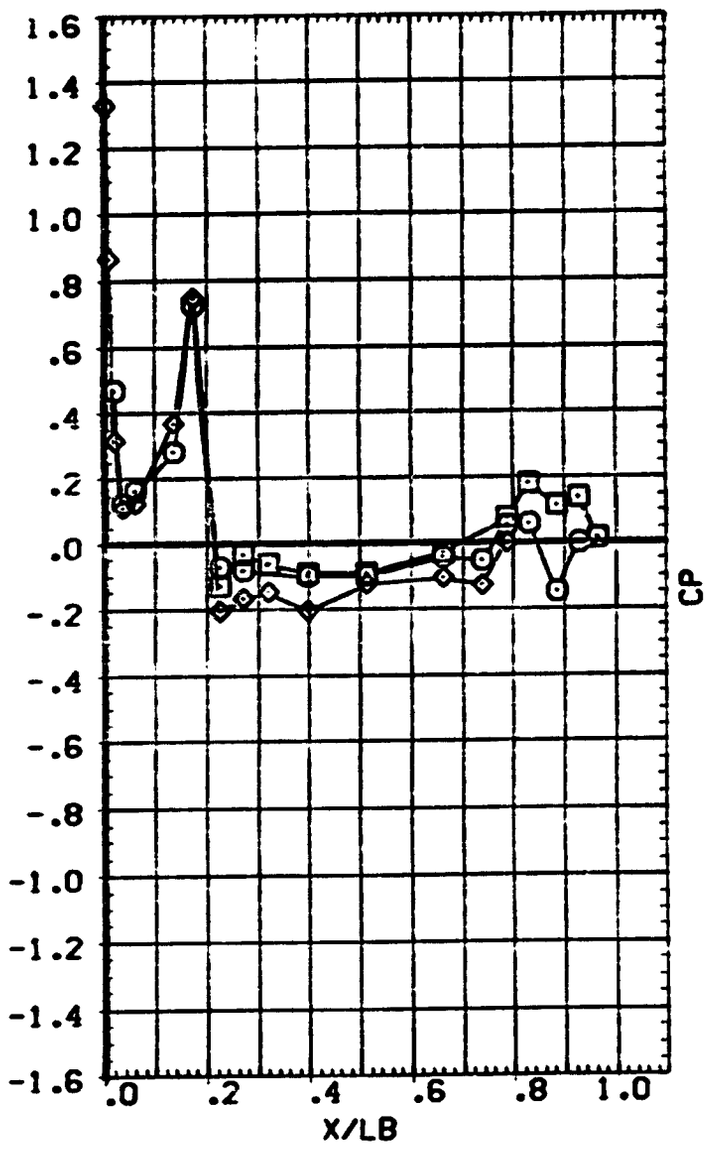
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

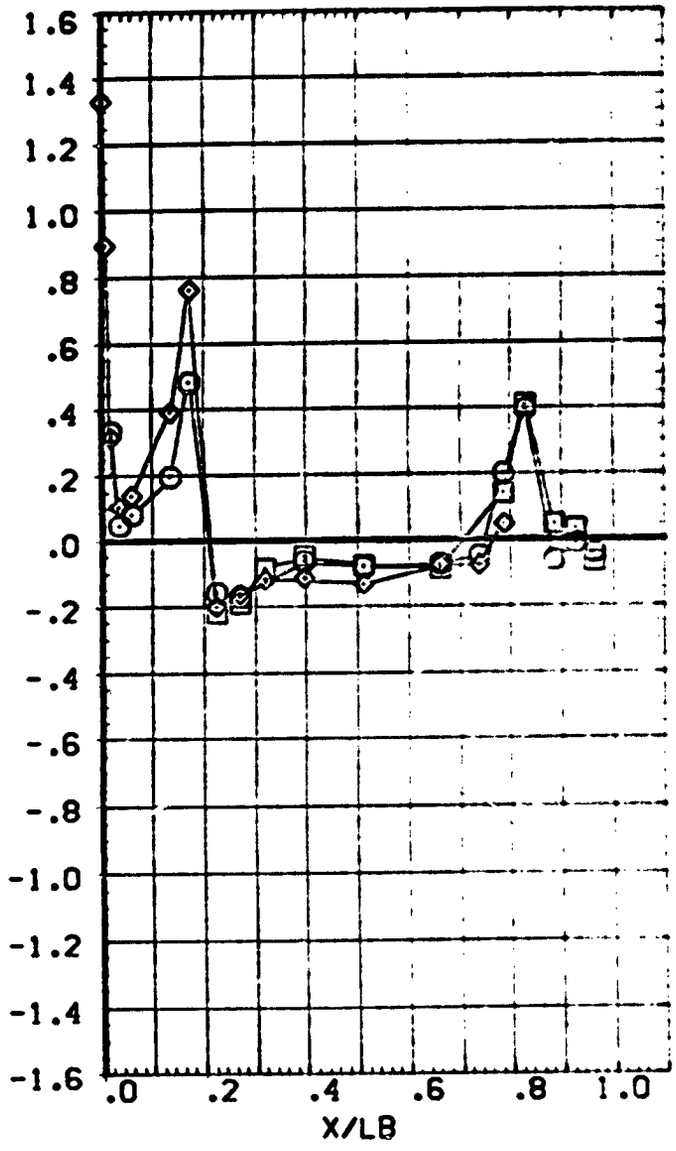
AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBC304)

SYMBOL	PHI	BETAT	MACH
○	150.000	-6.240	2.000
□	165.000	3.950	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	4.000	[illegible]	.500
RUDDER	.000	ELEVON	.000
ROFLR	.000		

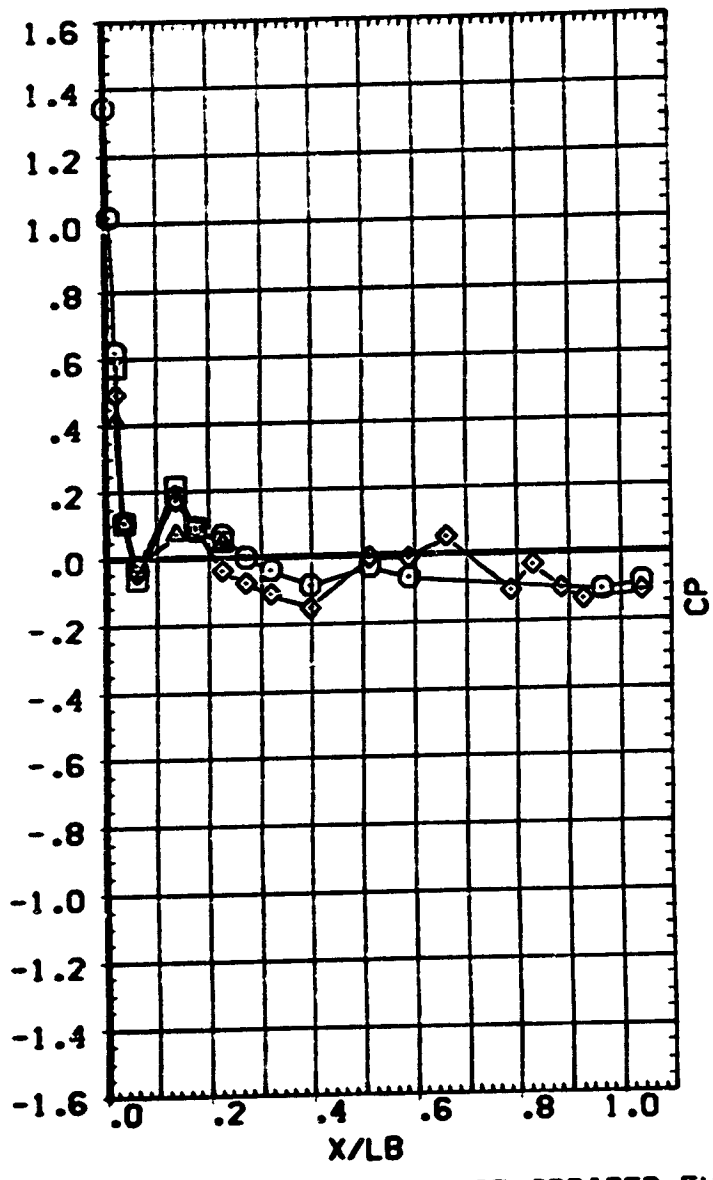


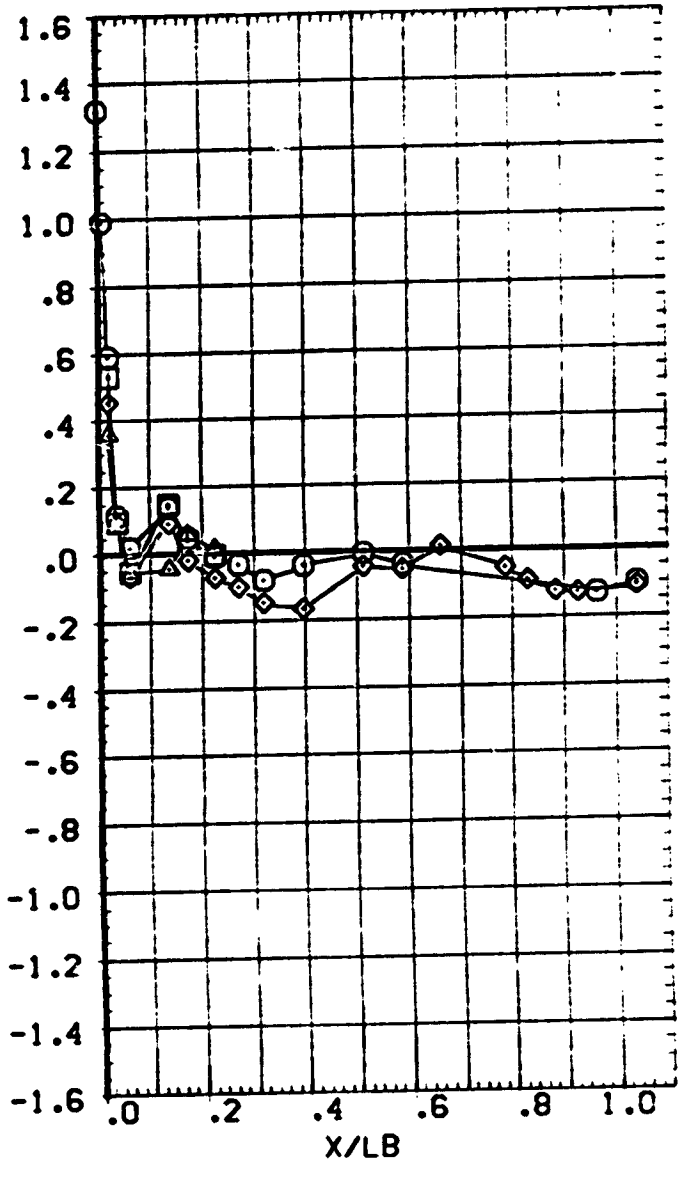


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

○ .000
□ 20.000
◇ 40.000
△ 55.000

RUDDER .000
RUDFLR .000





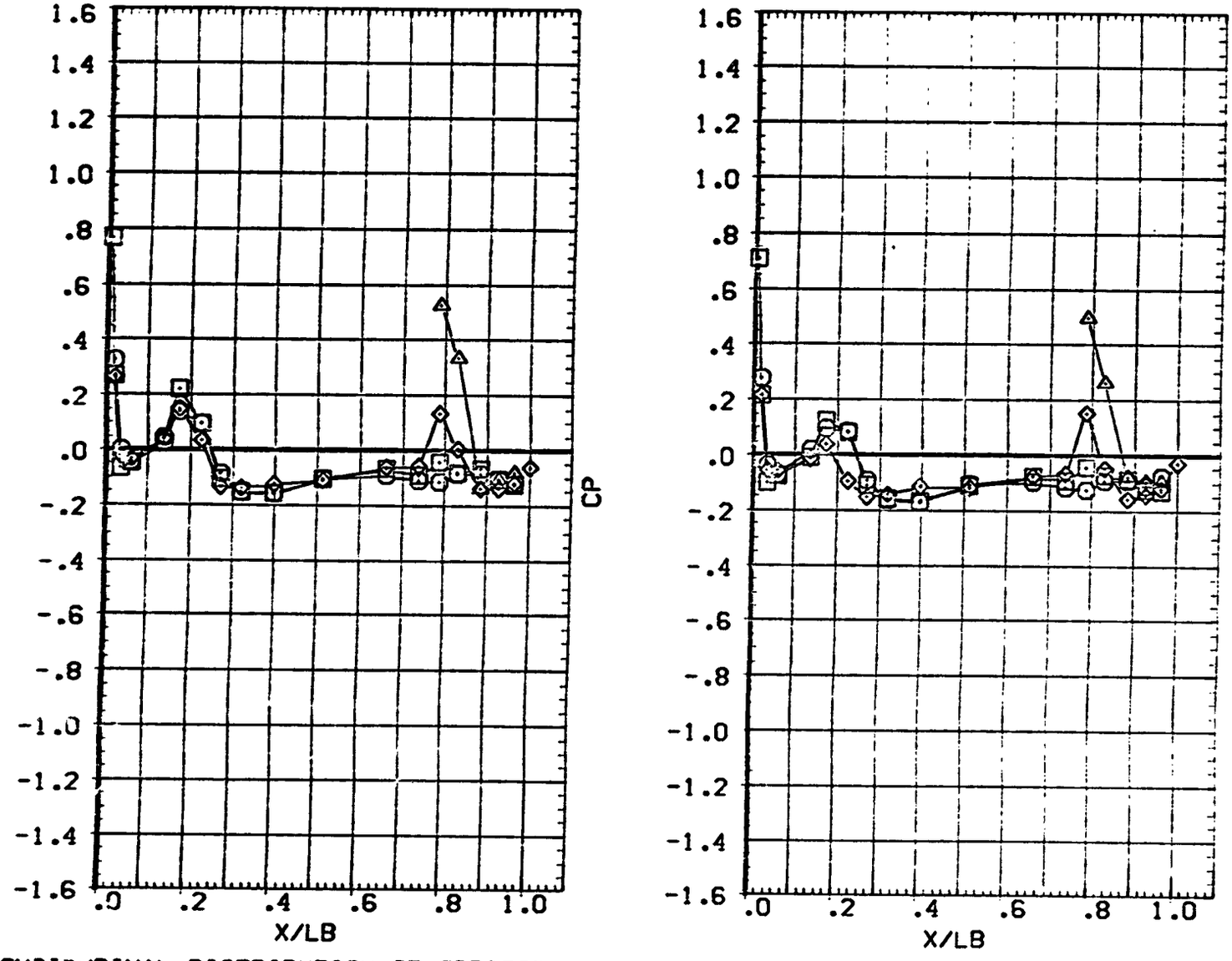
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 32A + 33 + T9 ORBITER FUSELAGE (RBOB04)

SYMBOL	PHI	BETAT	MACH
□	70.000	5.990	2.000
◇	90.000	8.030	
	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
BODFLP	.000		



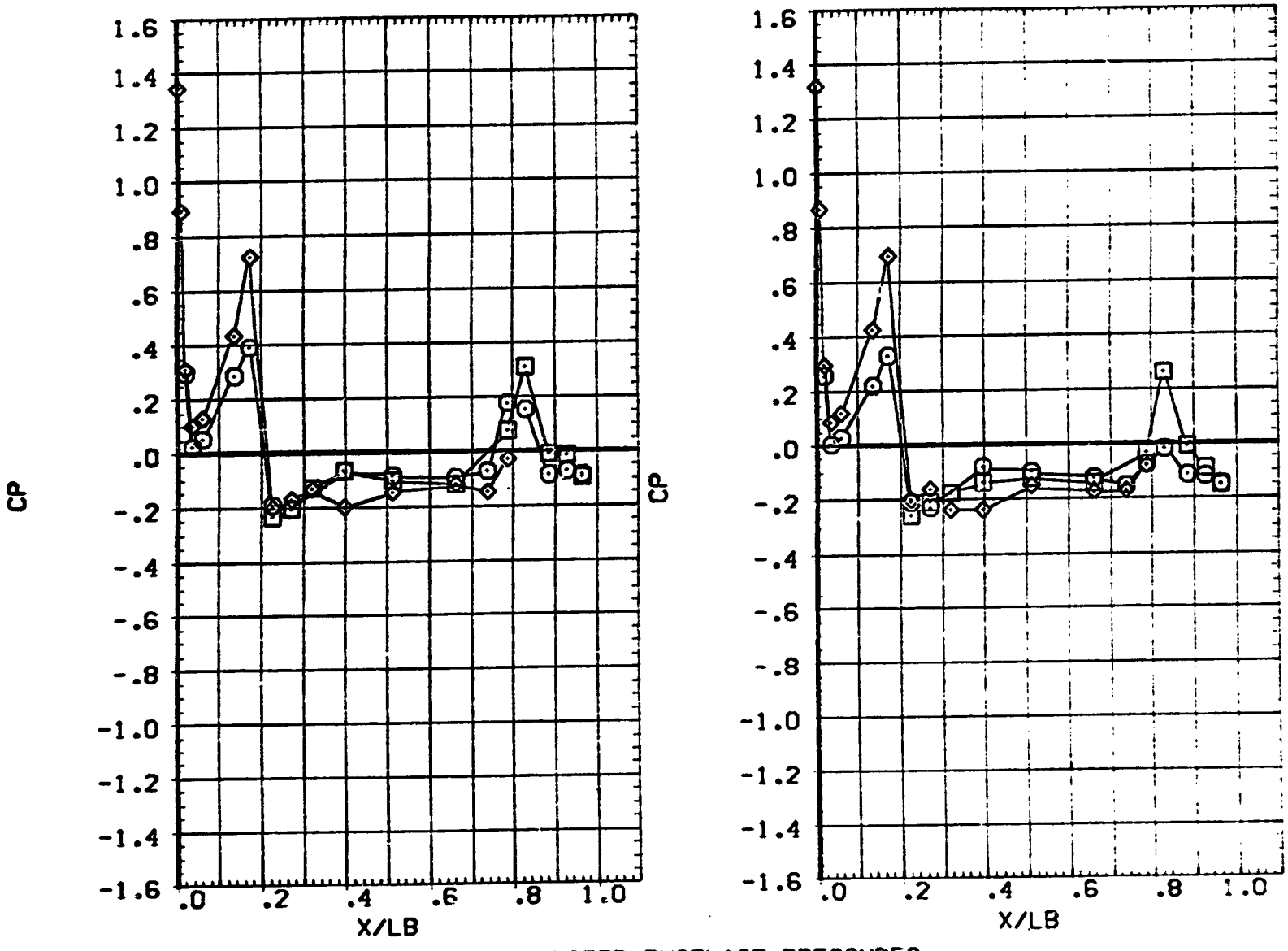
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B04)

SYMBOL	PHI	BETAT	MACH
○	150.000	5.990	2.000
□	165.000	8.030	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



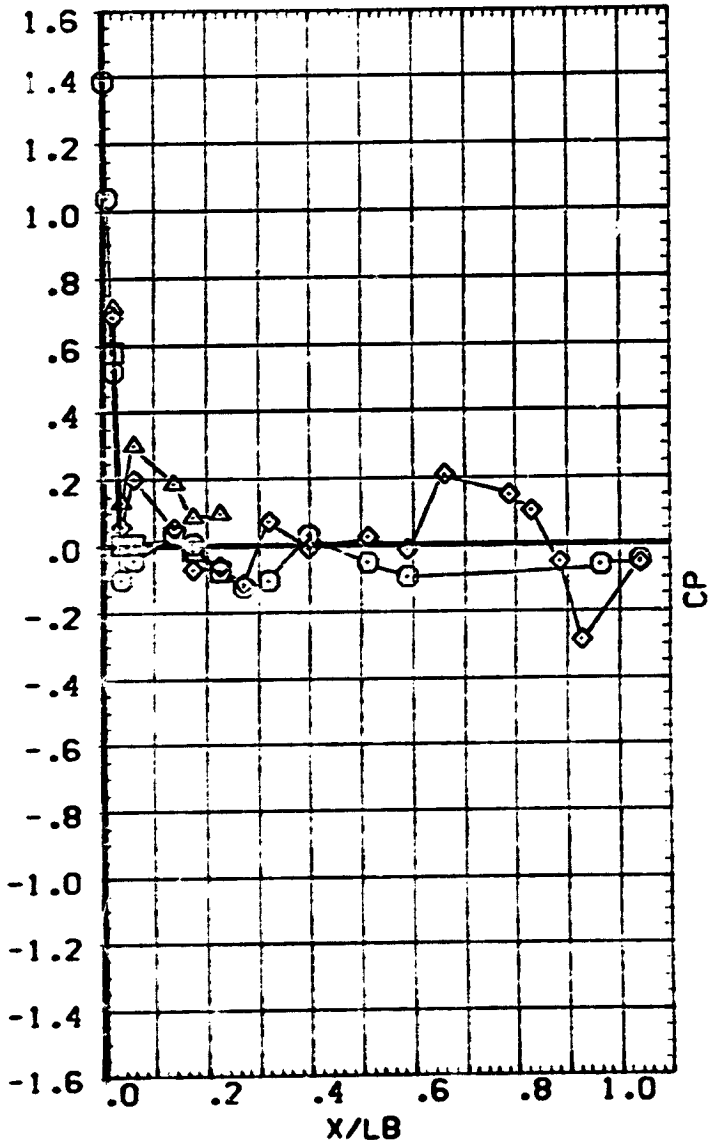
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

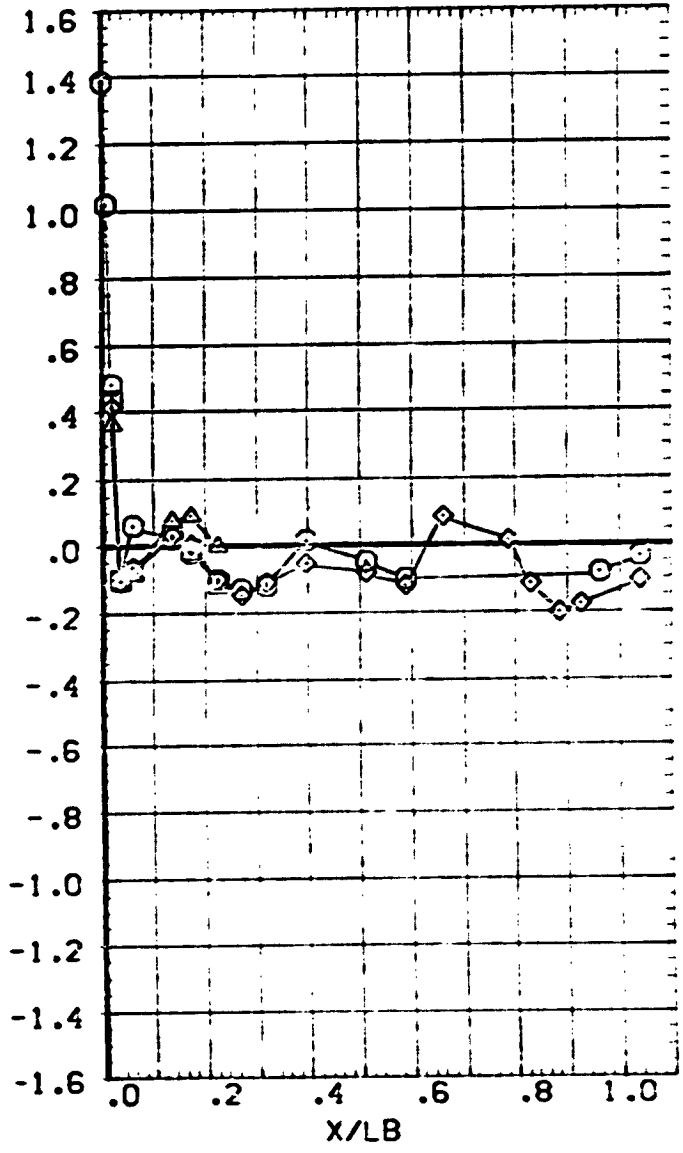
AMES 97-707 :A9 02A + S3 + T9 ORBITER FUSELAGE (RBC306)

SYMBOL	PHI	BETAT	MACH
○	.000	-5.080	1.555
□	20.000	5.050	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		





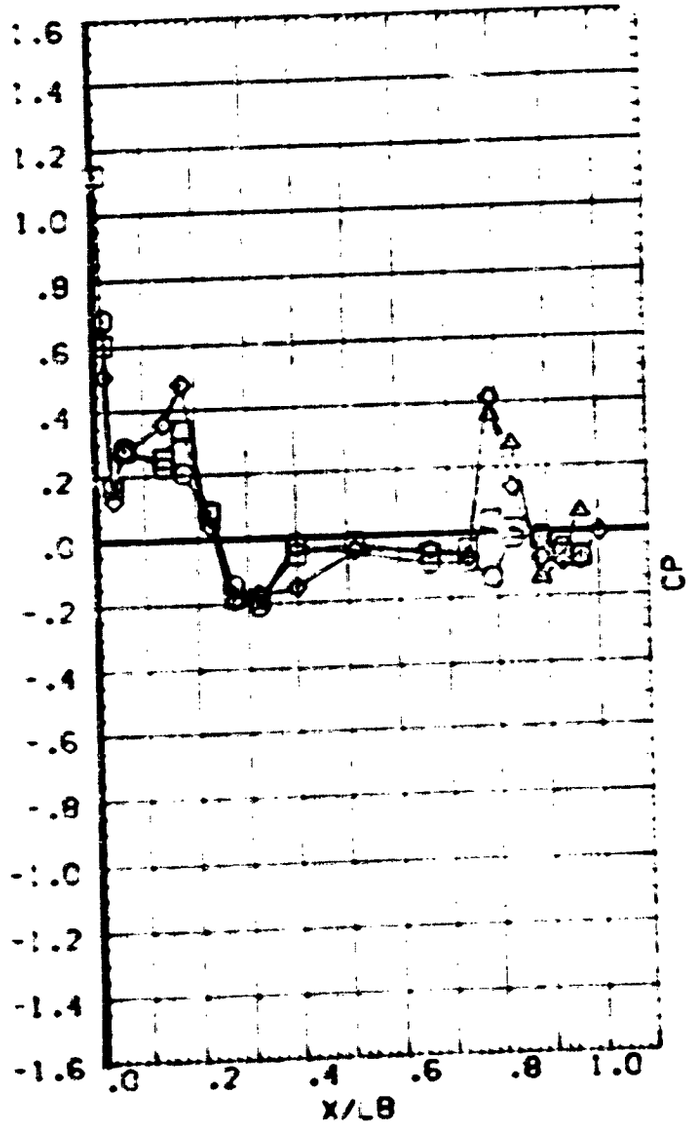
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

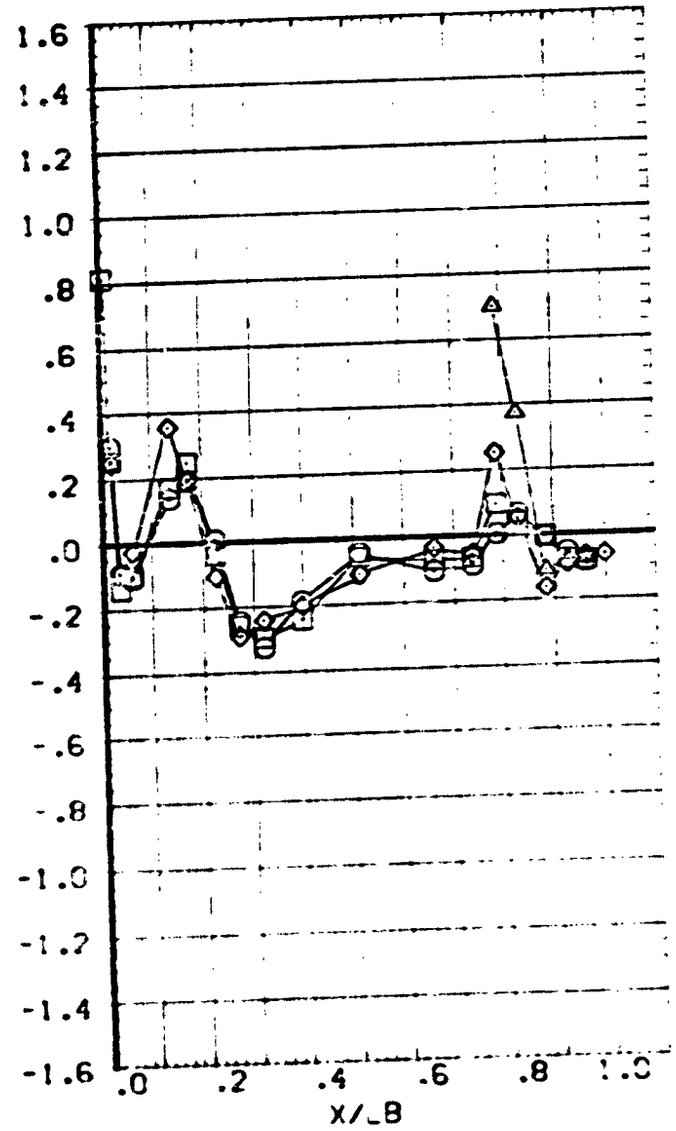
AMES 97-707 (A9 C2A + S3 + T9 ORBITER FUSELAGE (RBCBC6)

SYMBOL	RN	BETA	MACH
	70.000	0.000	1.555
	95.000	0.250	
	120.000		
	170.000		

PARAMETRIC VALUES

ALPHAT	.000	SPEINC	.500
RUDDER	.000	ELEVON	.000
RUDFLP	.000		



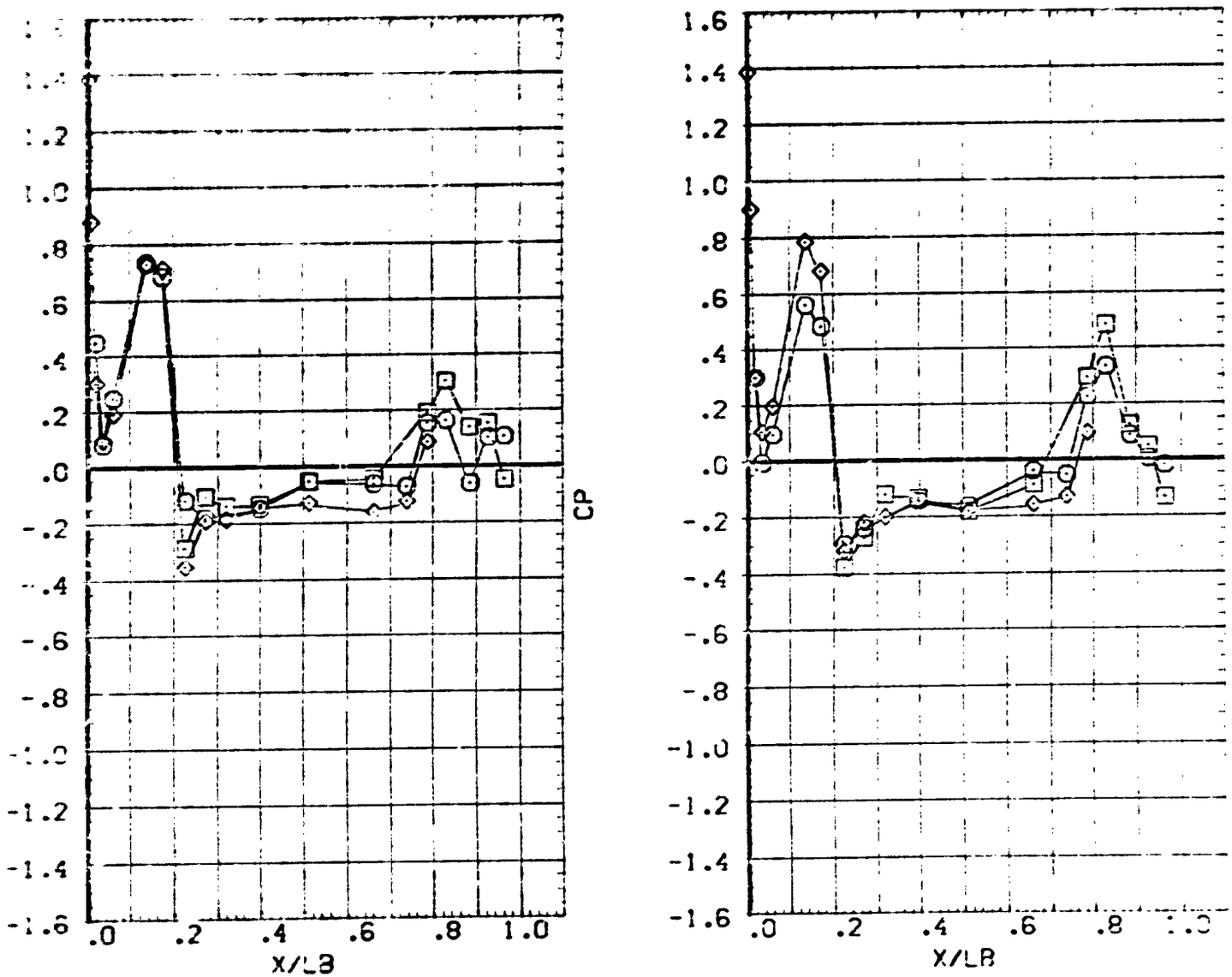


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

[illegible] 02A + 63 + 79 ORBITER FUSELAGE (PBC306)

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

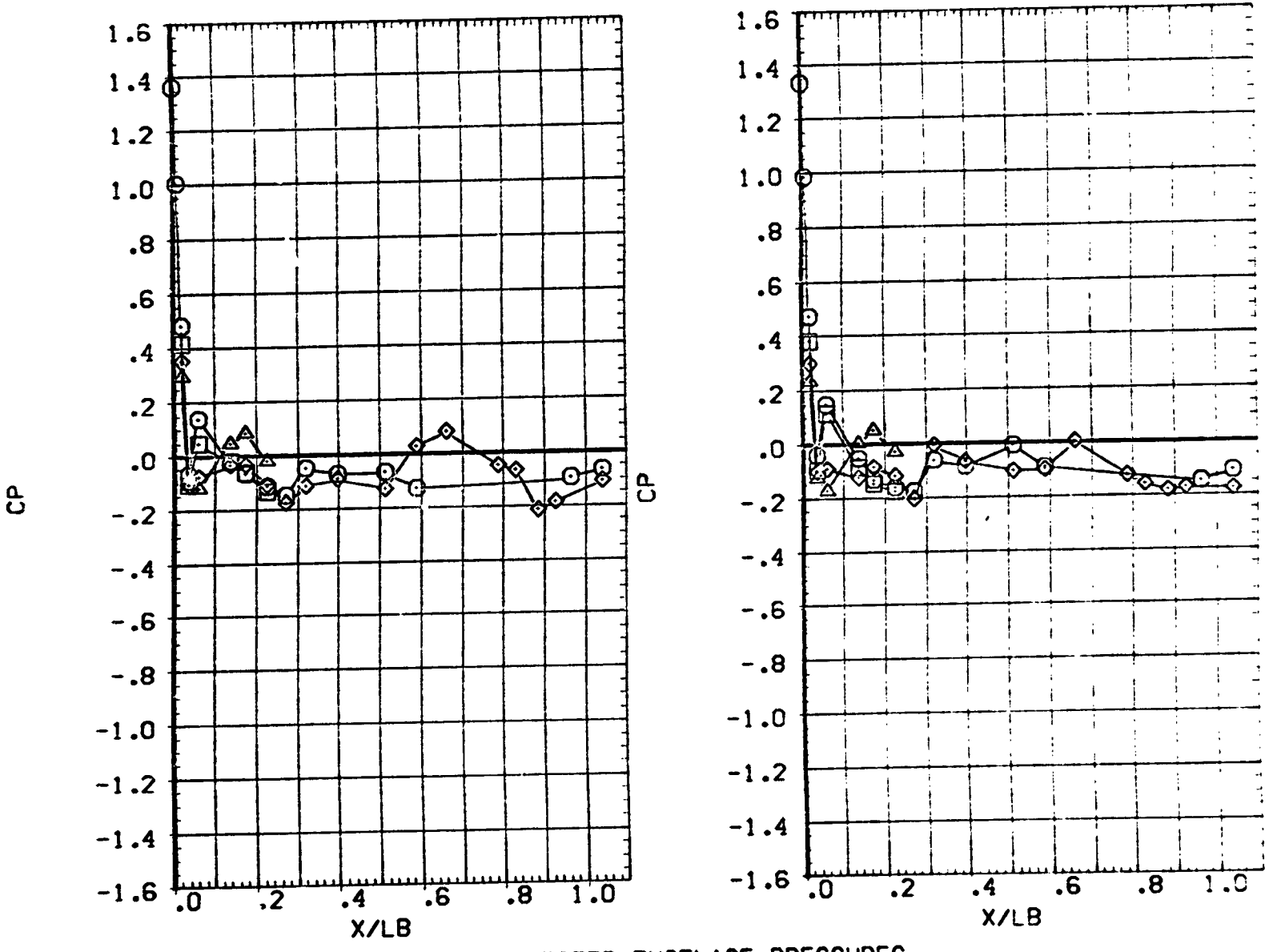


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL	PHI	BETAT	MACH
○	.000	7.060	1.555
□	20.000	9.090	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



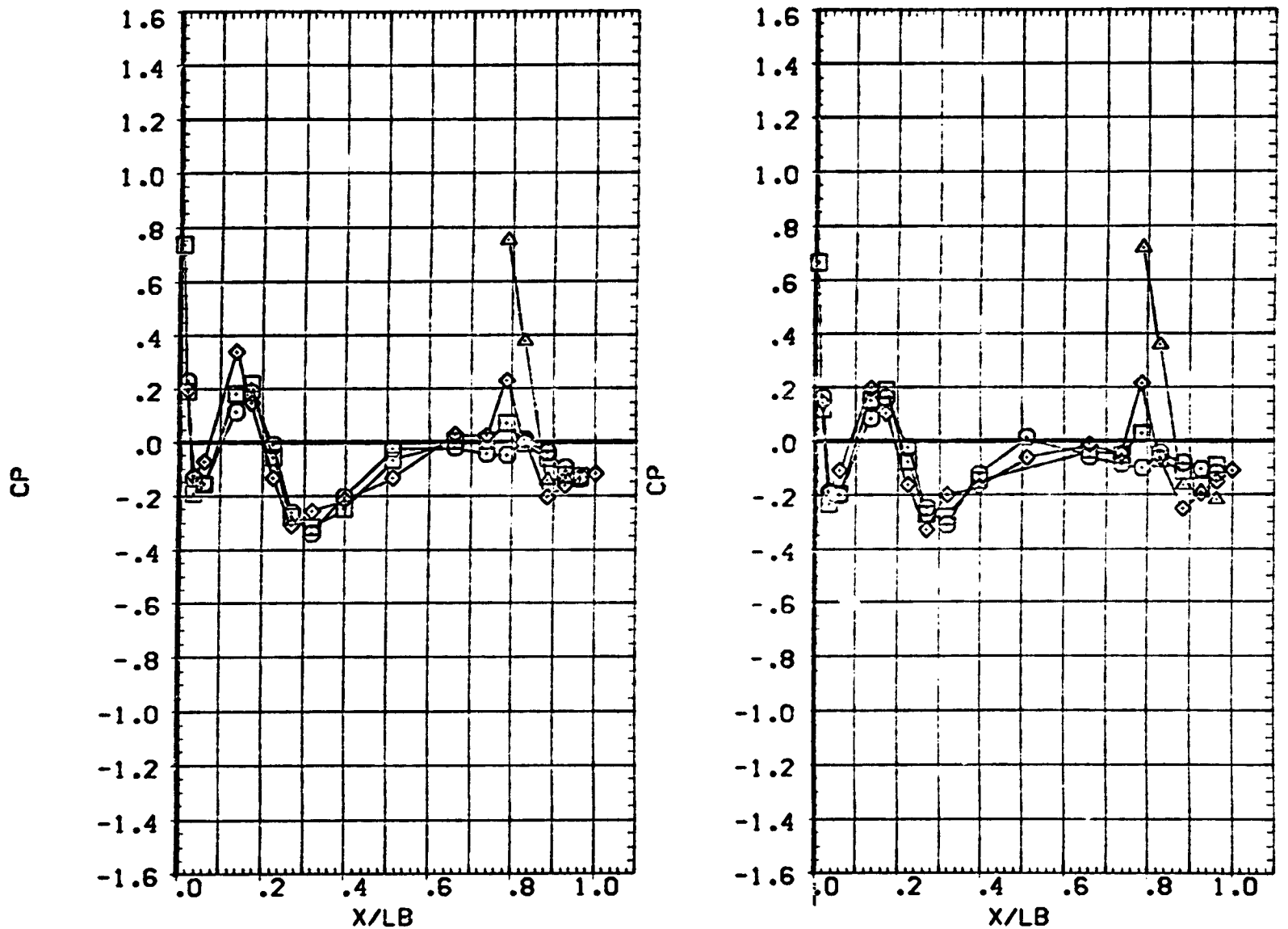
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B06)

SYMBOL	PHI	BETA	MACH
○	70.000	7.060	1.555
□	90.000	9.090	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

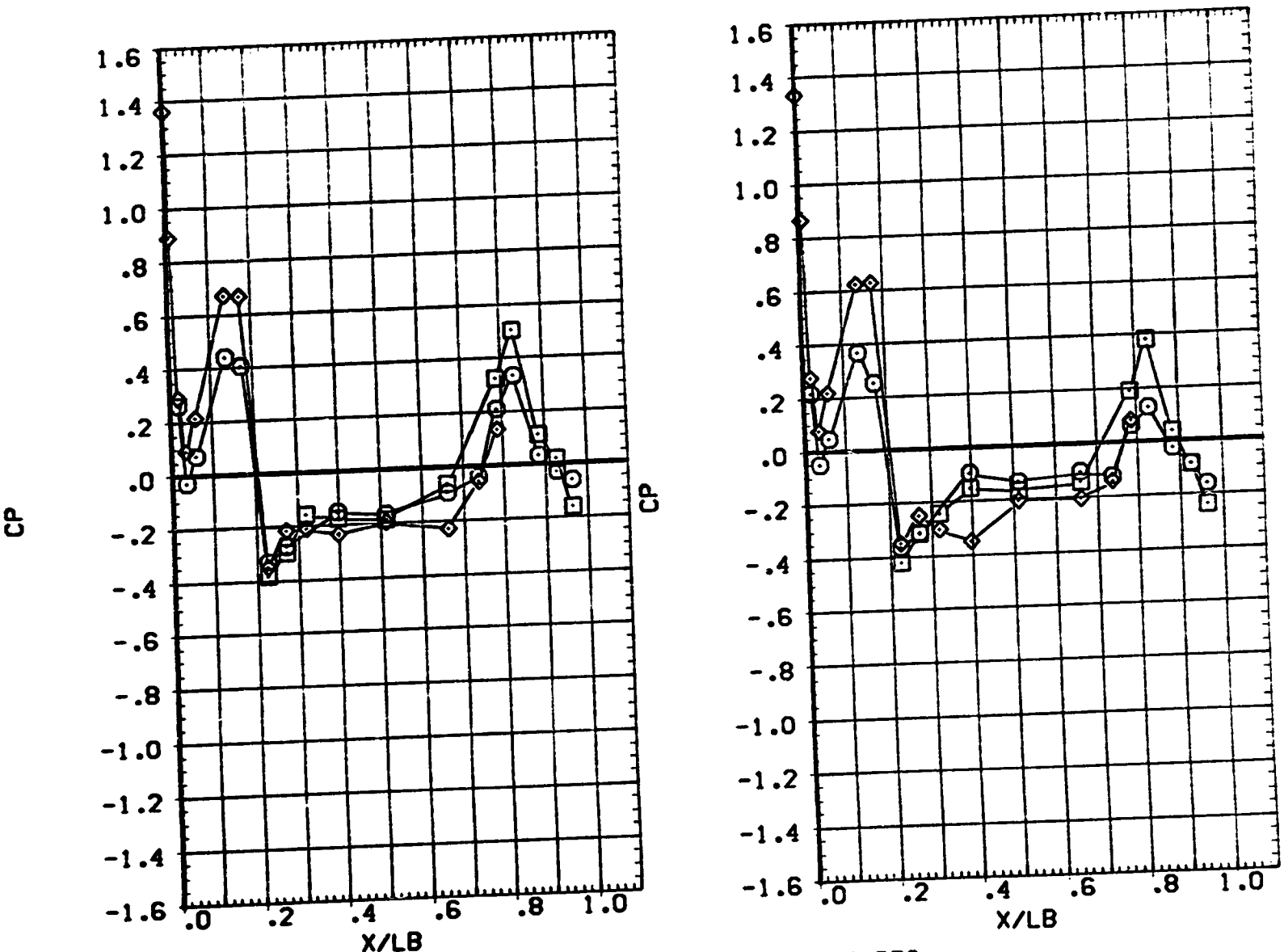
ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL	PHI	BETAT	MACH
○	150.000	7.060	1.555
□	165.000	9.090	
◇	180.000		

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



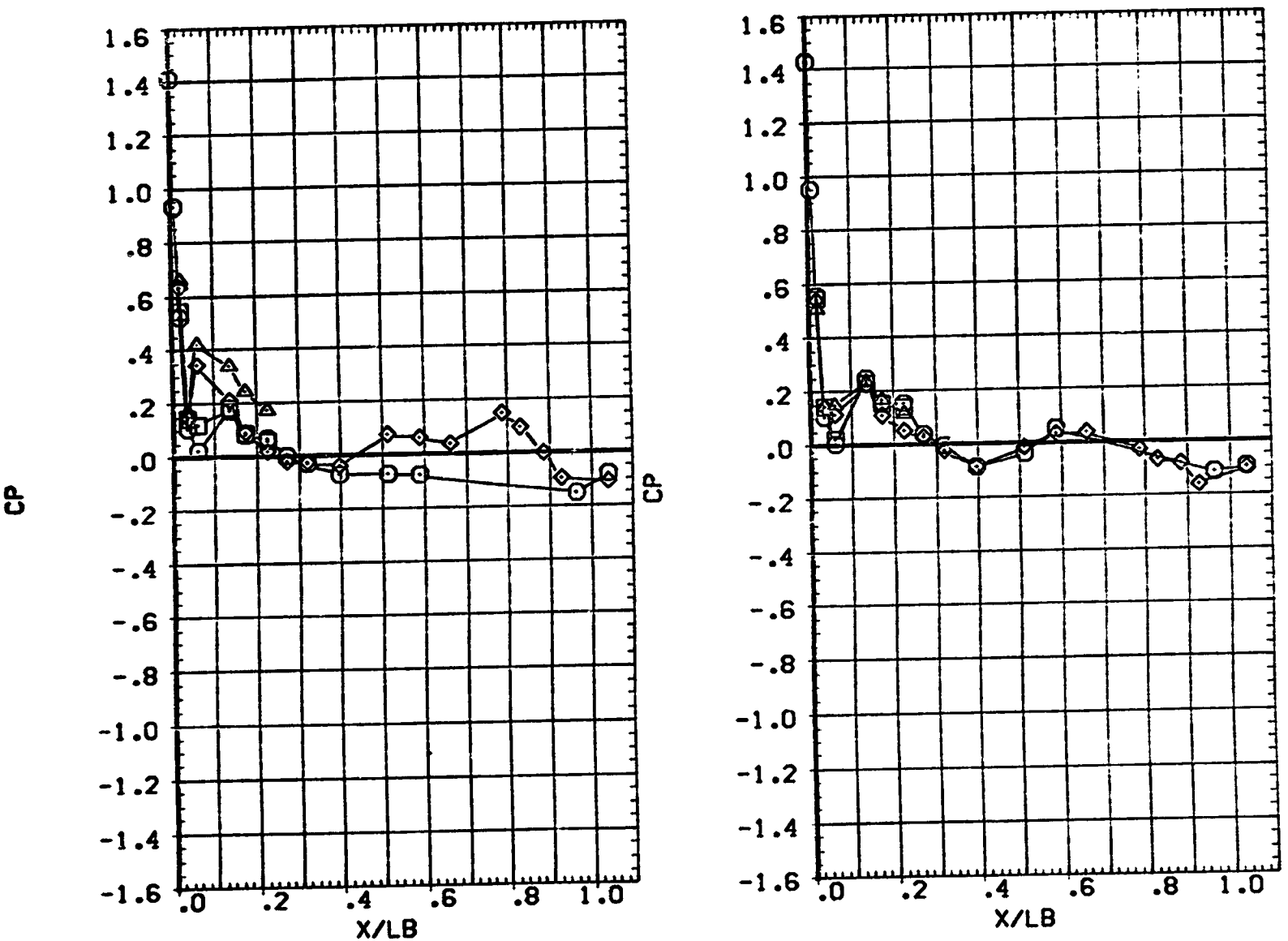
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B06)

SYMBOL	PHI	BETAT	MACH
○	.000	-6.250	2.000
□	20.000	-.130	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



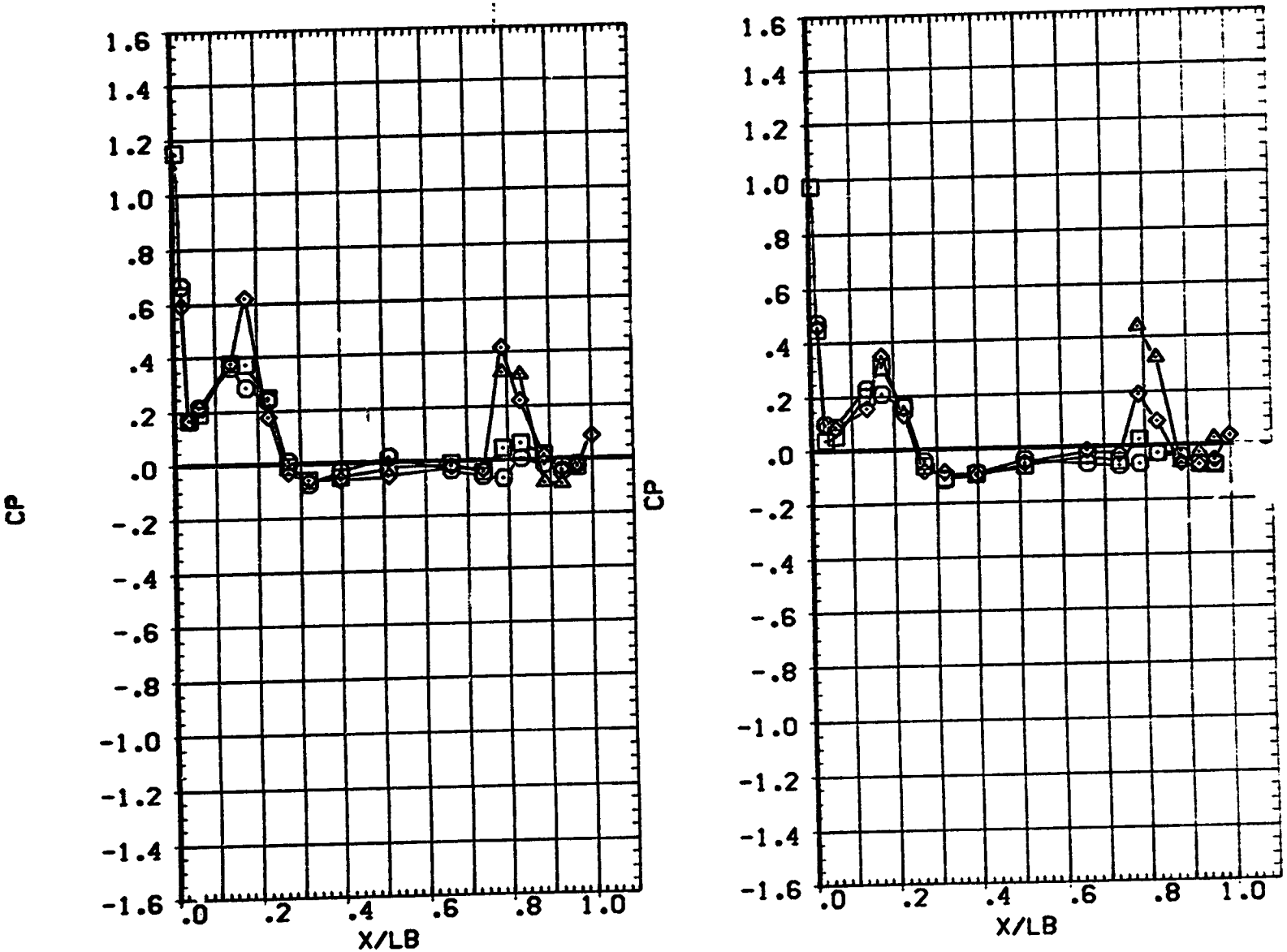
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 3T TUT TNJ OLH 00

SYMBOL	PHI	BETAT	MACH
○	70.000	-6.250	2.000
□	90.000	-.130	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



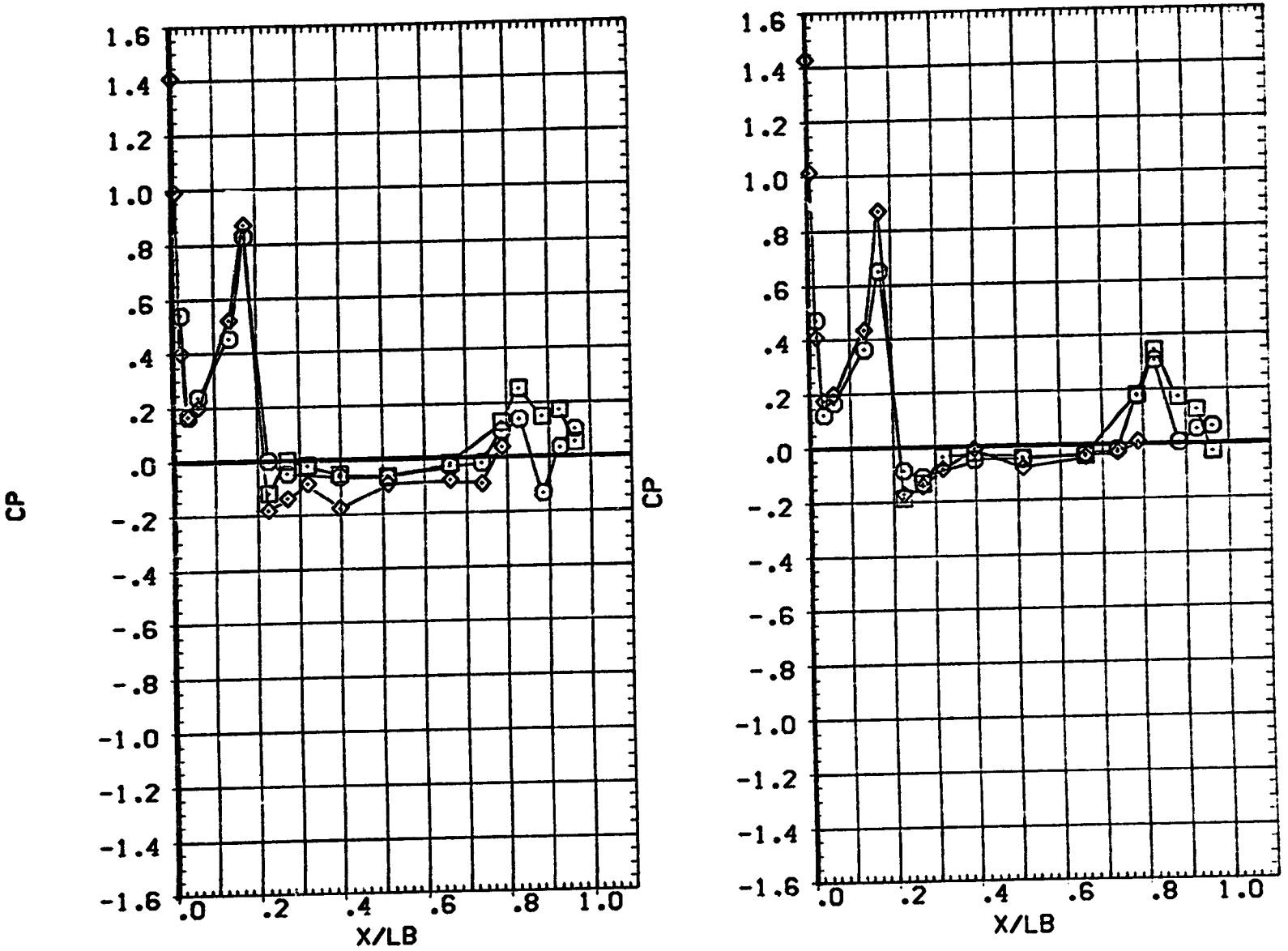
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B06)

SYMBOL	PHI	BETAT	MACH
○	150.000	-6.250	2.000
□	165.000	-.130	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVCN	.000
RUDFLR	.000		



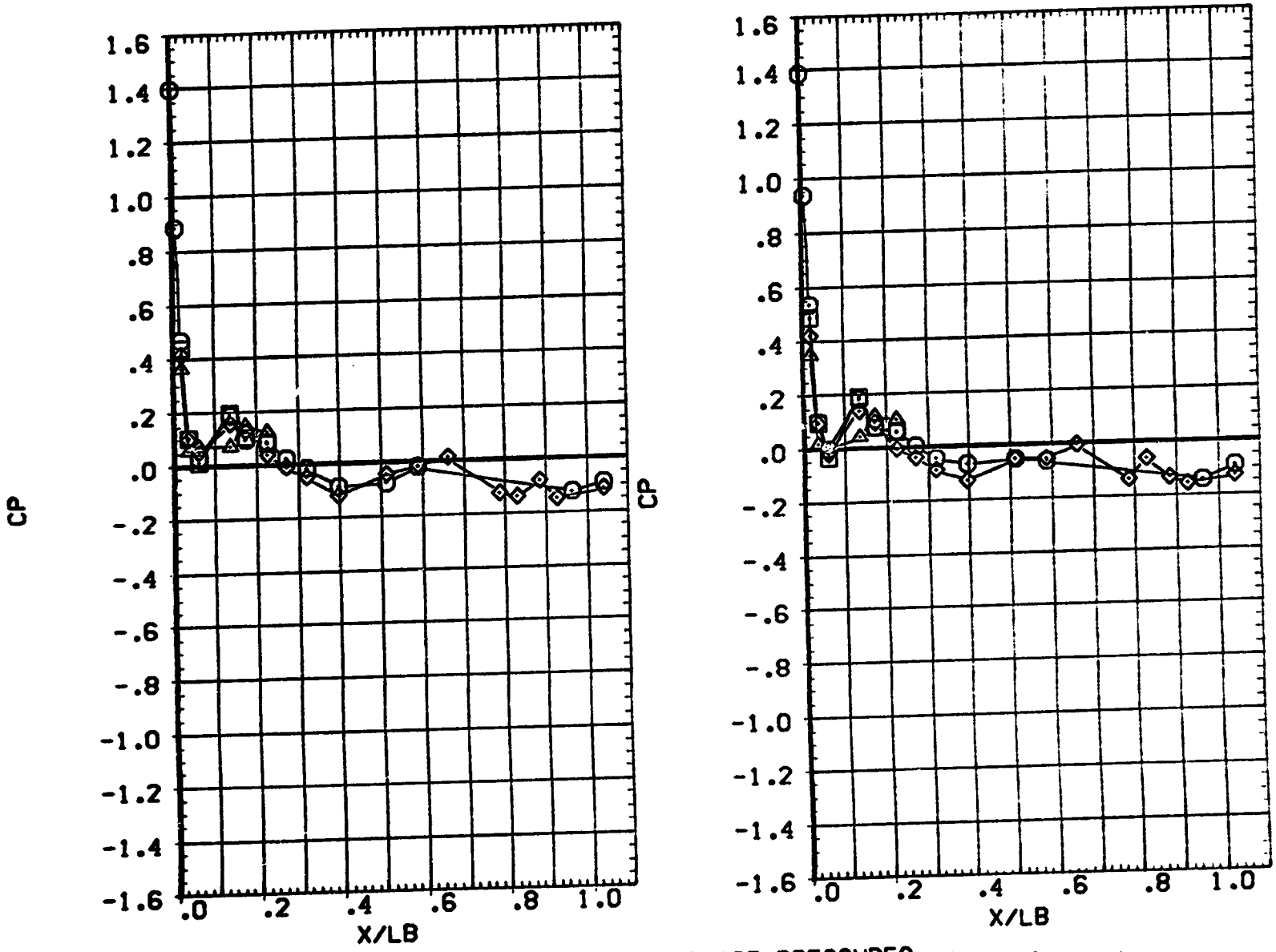
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE [RBOBC6]

SYMBOL	PHI	BETAT	MACH
○	.000	3.950	2.000
□	20.000	5.980	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



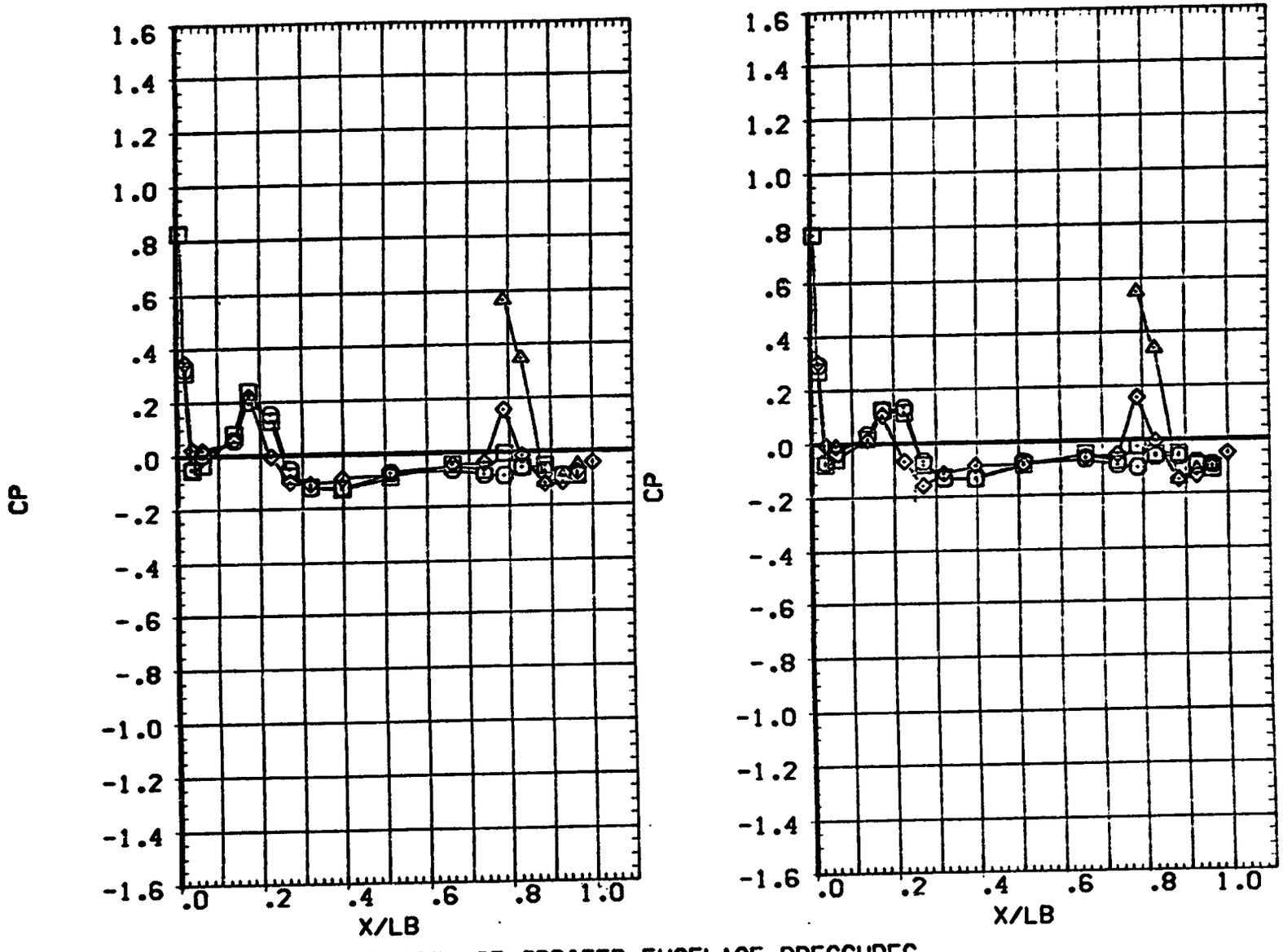
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RB0B06)

SYMBOL	PHI	BETAT	MACH
○	70.000	3.950	2.000
□	90.000	5.980	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



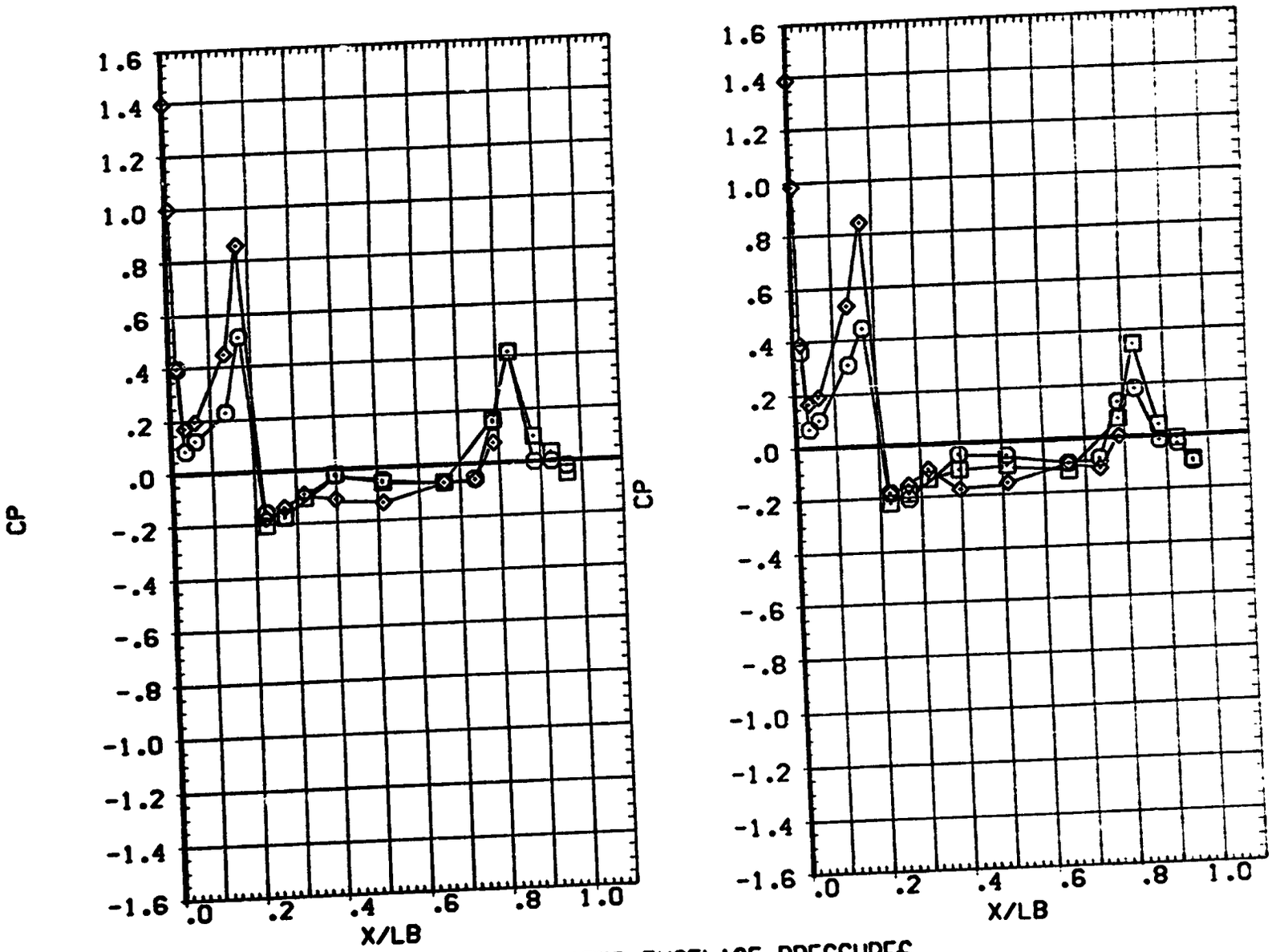
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B06)

SYMBOL	PHI	BETAT	MACH
○	150.000	3.950	2.000
□	165.000	5.980	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



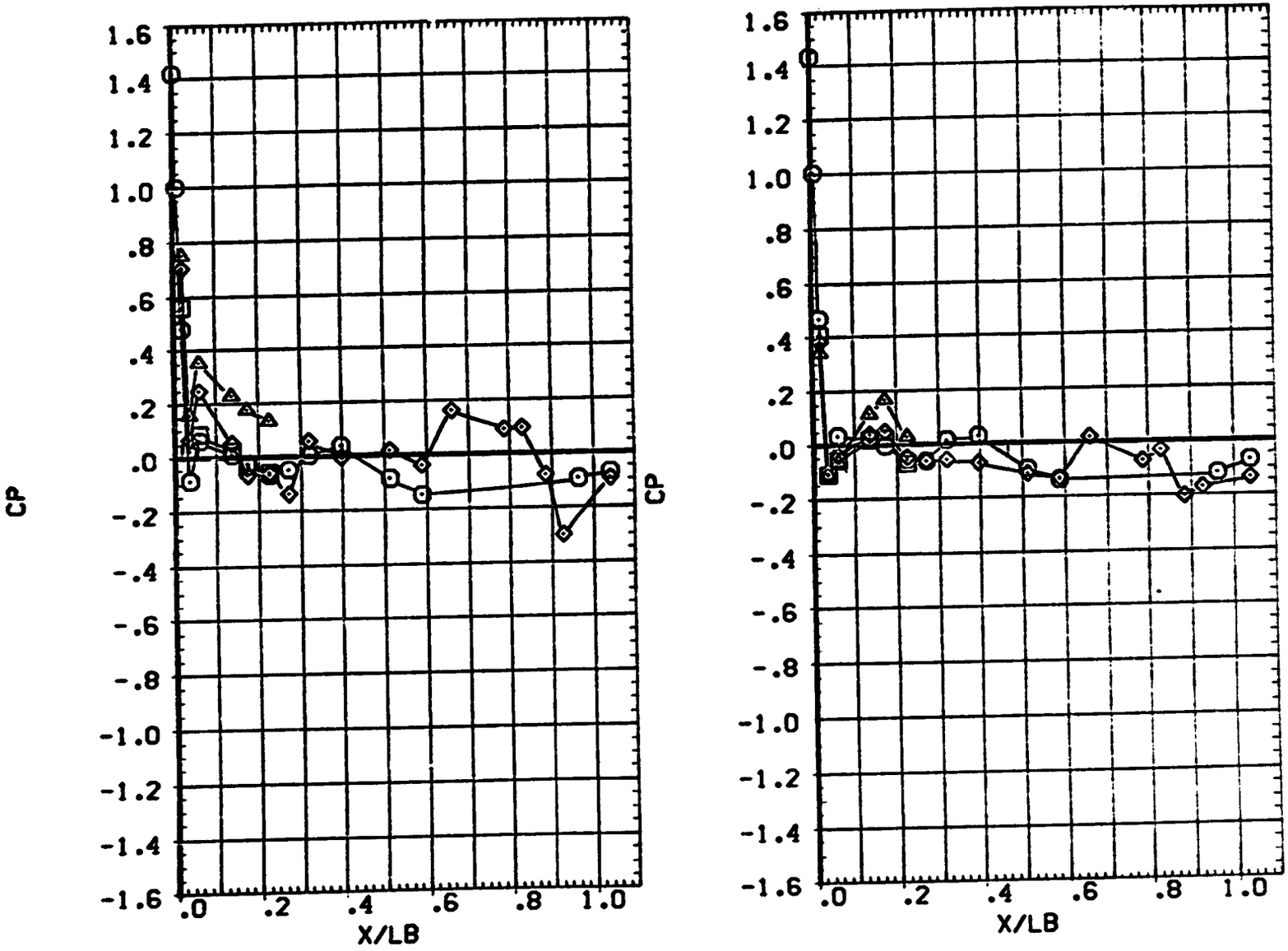
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB0B08)

SYMBOL	PHI	BETAT	MACH
○	.000	-6.150	1.555
□	20.000	5.030	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



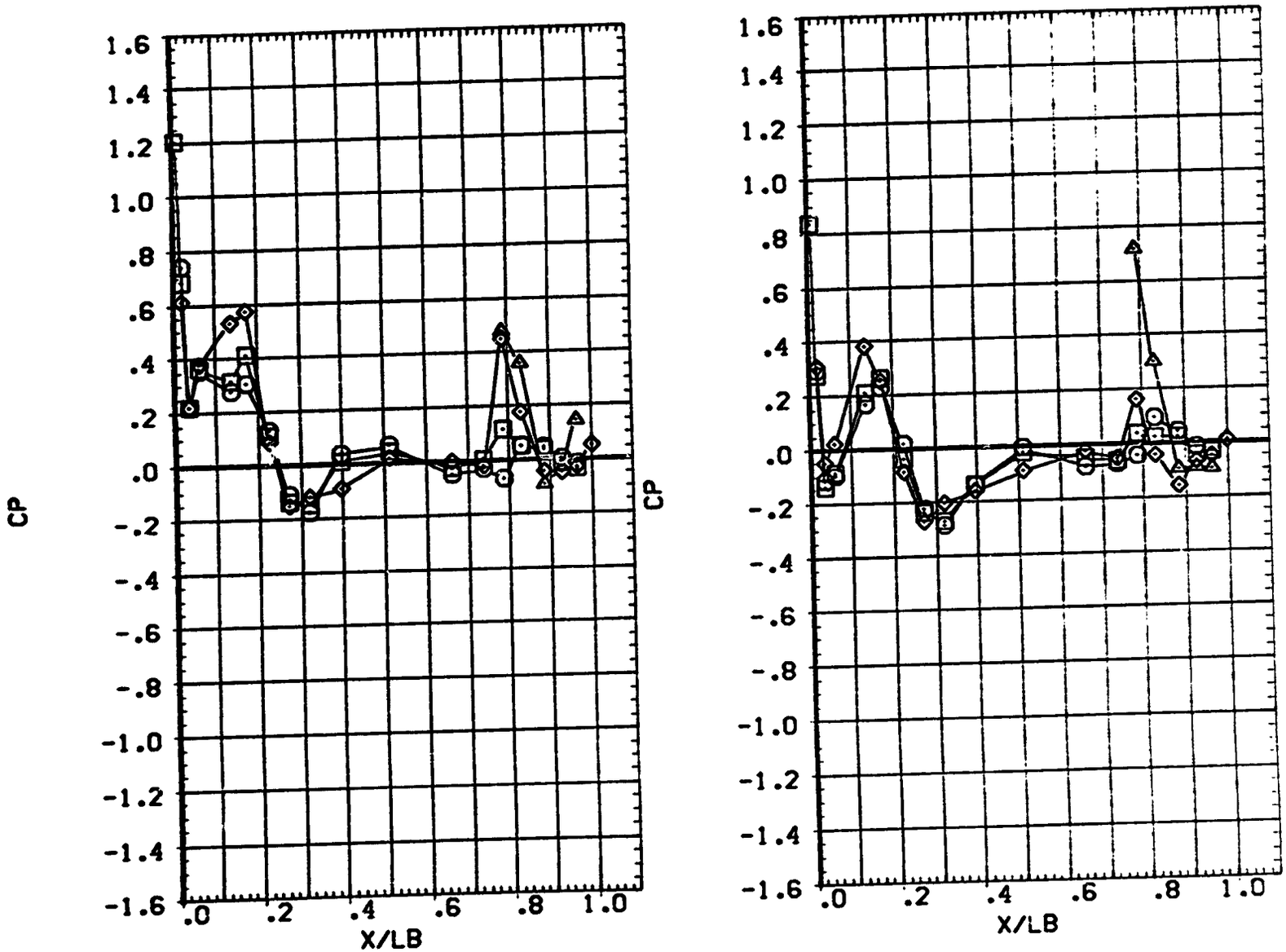
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B08)

SYMBOL	PHI	BETAT	MACH
○	70.000	-6.150	1.555
□	90.000	5.030	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



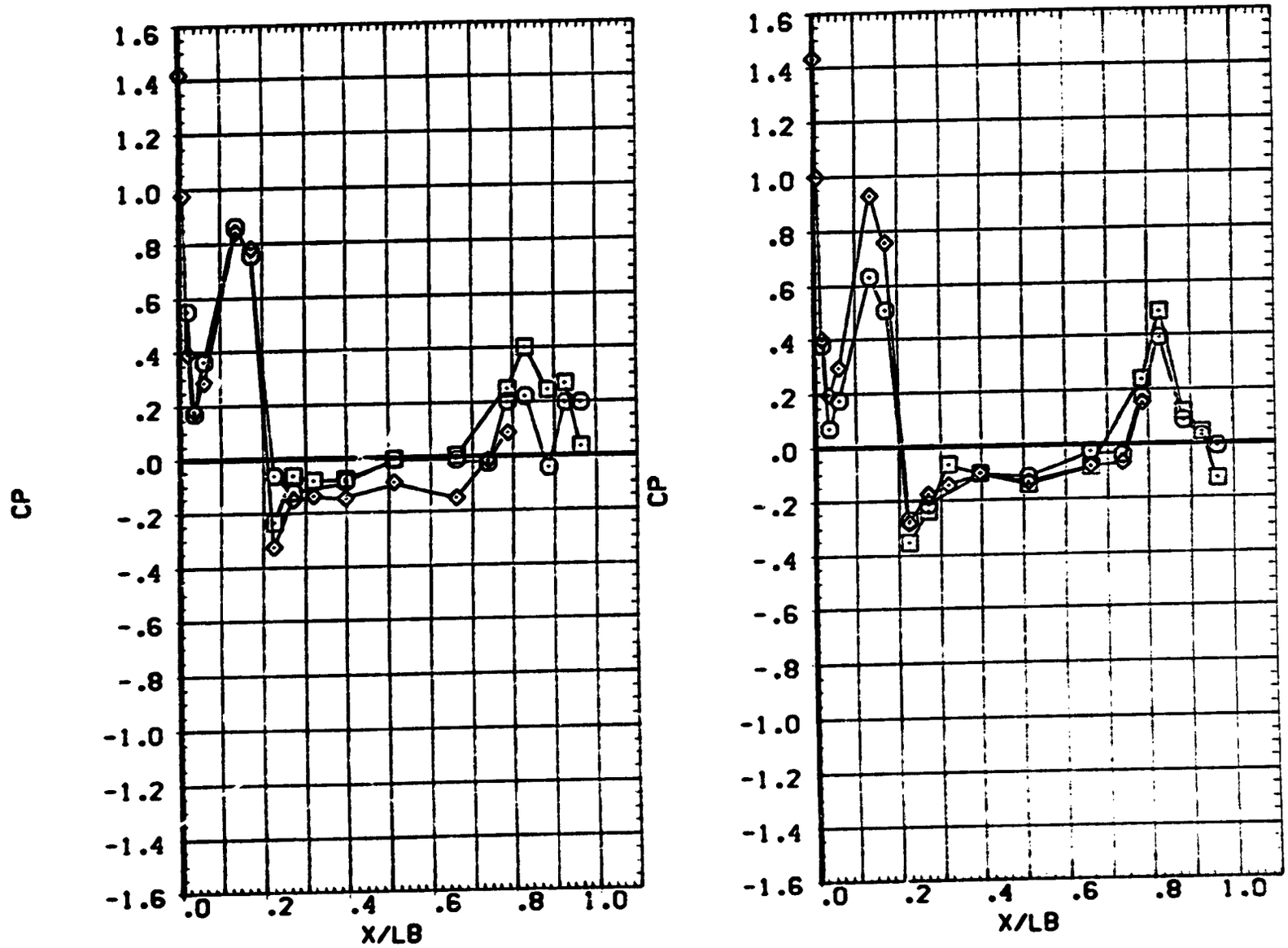
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B08)

SYMBOL	PHI	BETAT	MACH
○	150.000	-6.150	1.555
□	165.000	5.030	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



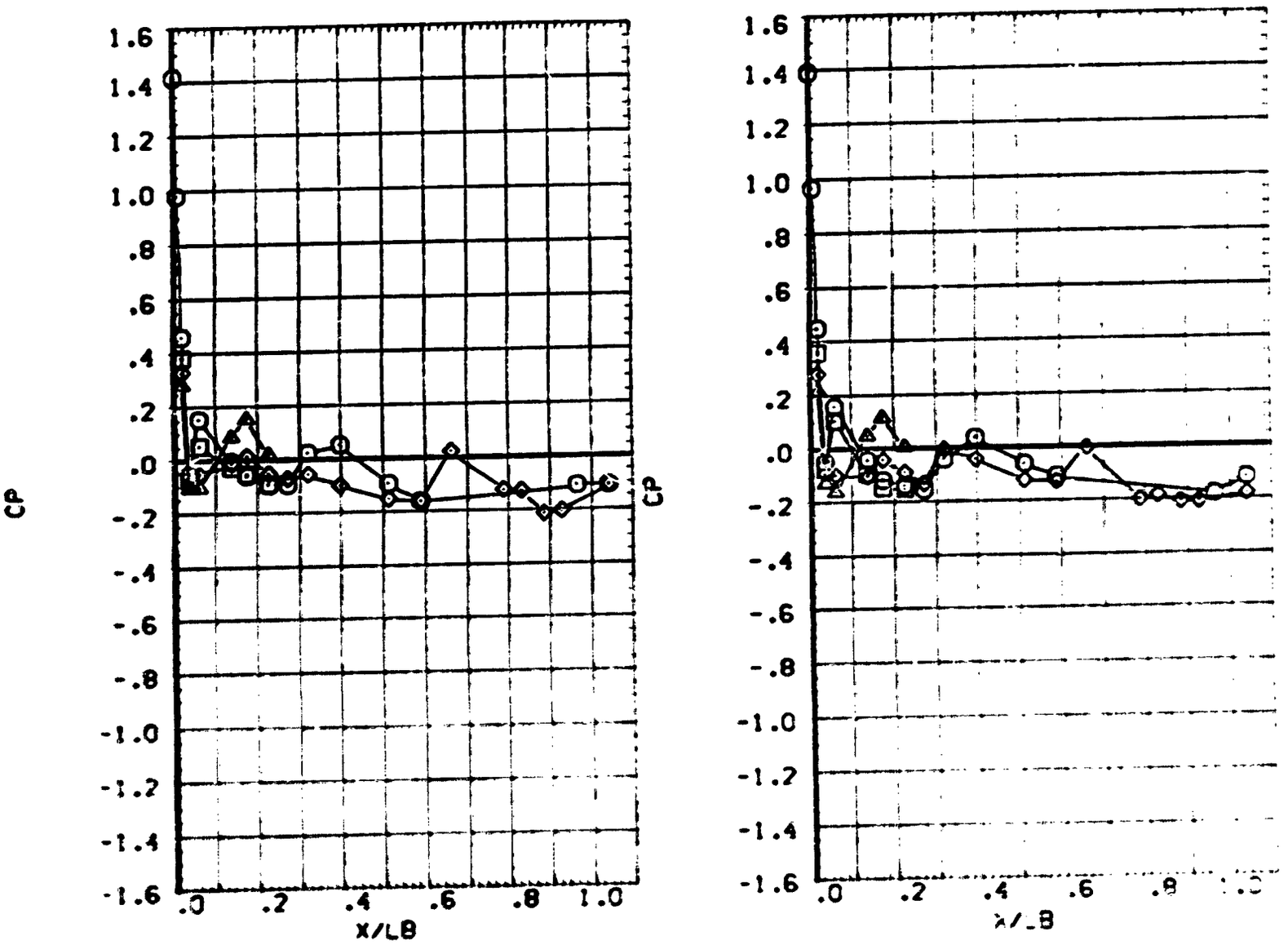
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB0808)

SYMBOL	PHI	BETAT	MACH
○	.000	7.050	1.555
□	20.000	9.070	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	-4.000	SPRINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



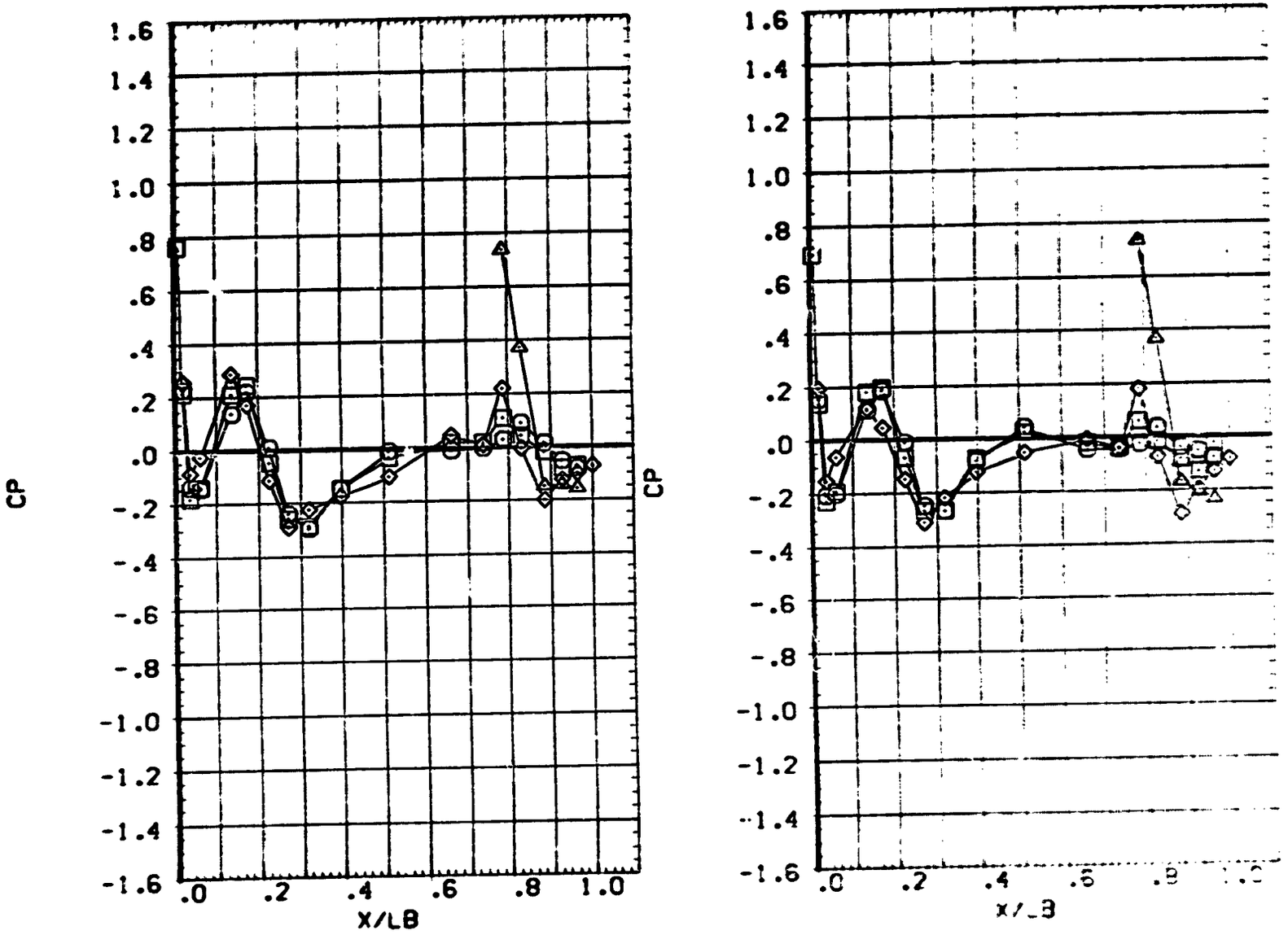
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 (AS 02A + S3 + T9 ORBITER FUSELAGE (R8C308)

SYMBOL	ALPHA	BETA	MACH
○	70.000	7.050	.555
□	90.000	9.070	
◇	120.000		
△	135.000		

PARAMETER VALUES

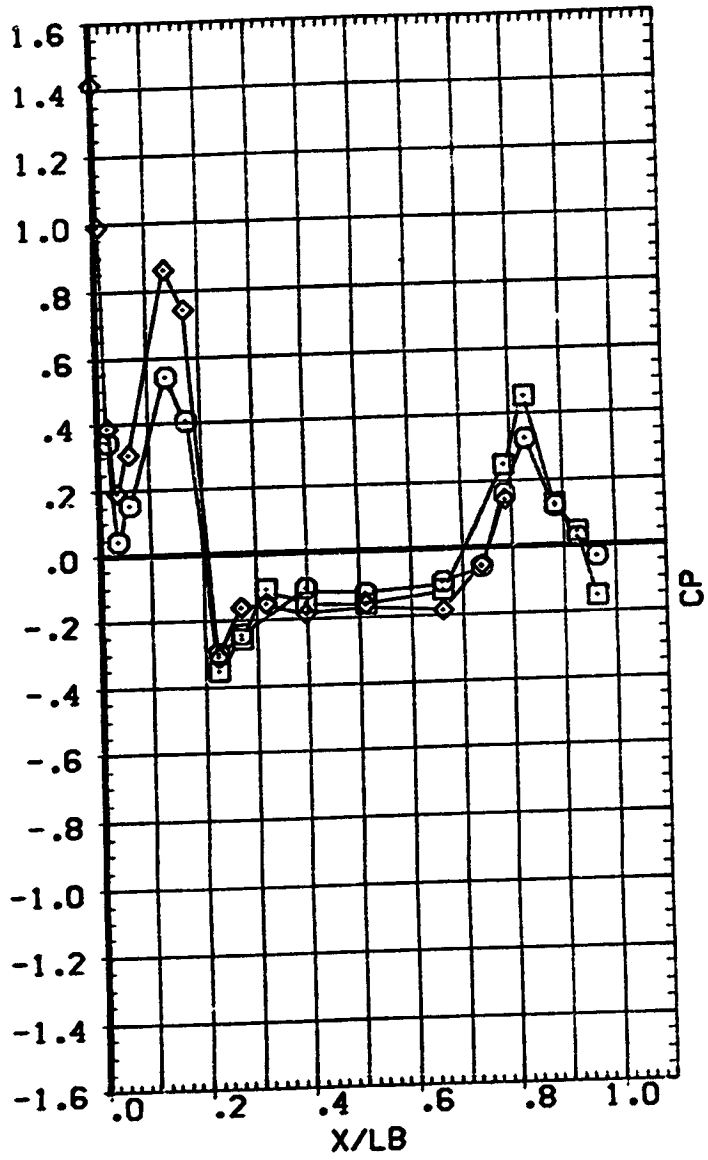
ALPHAT	-4.000	[illegible]	[illegible]
R_ODER	.000	[illegible]	[illegible]
R_SLP	.000		

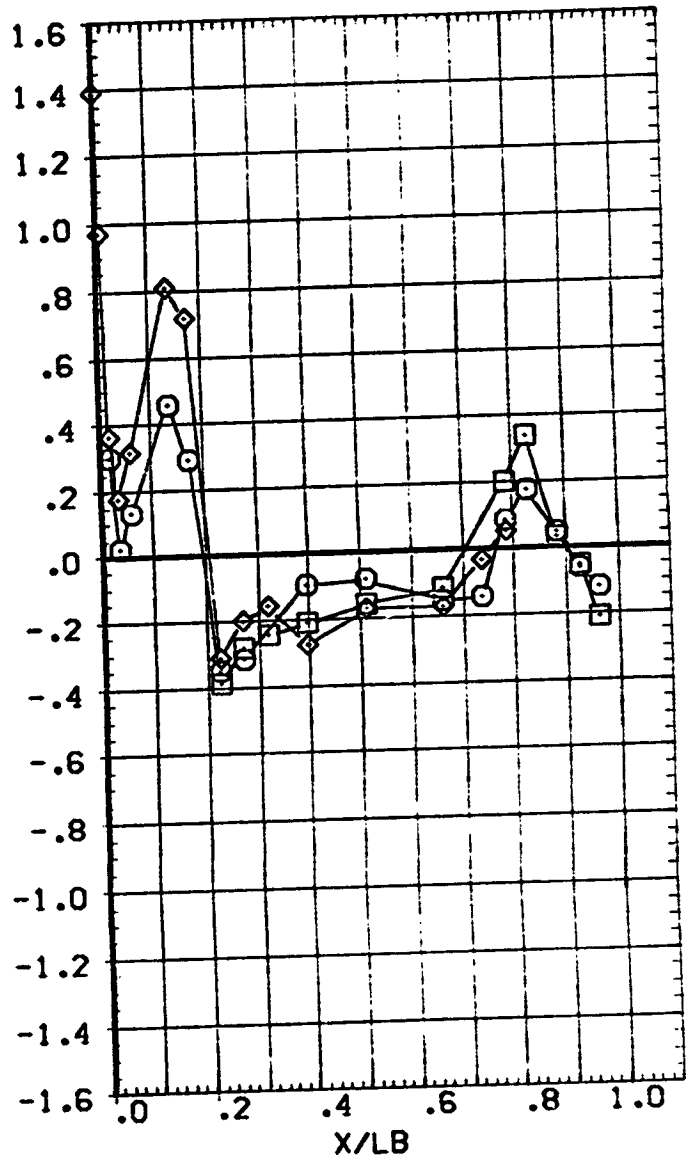


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

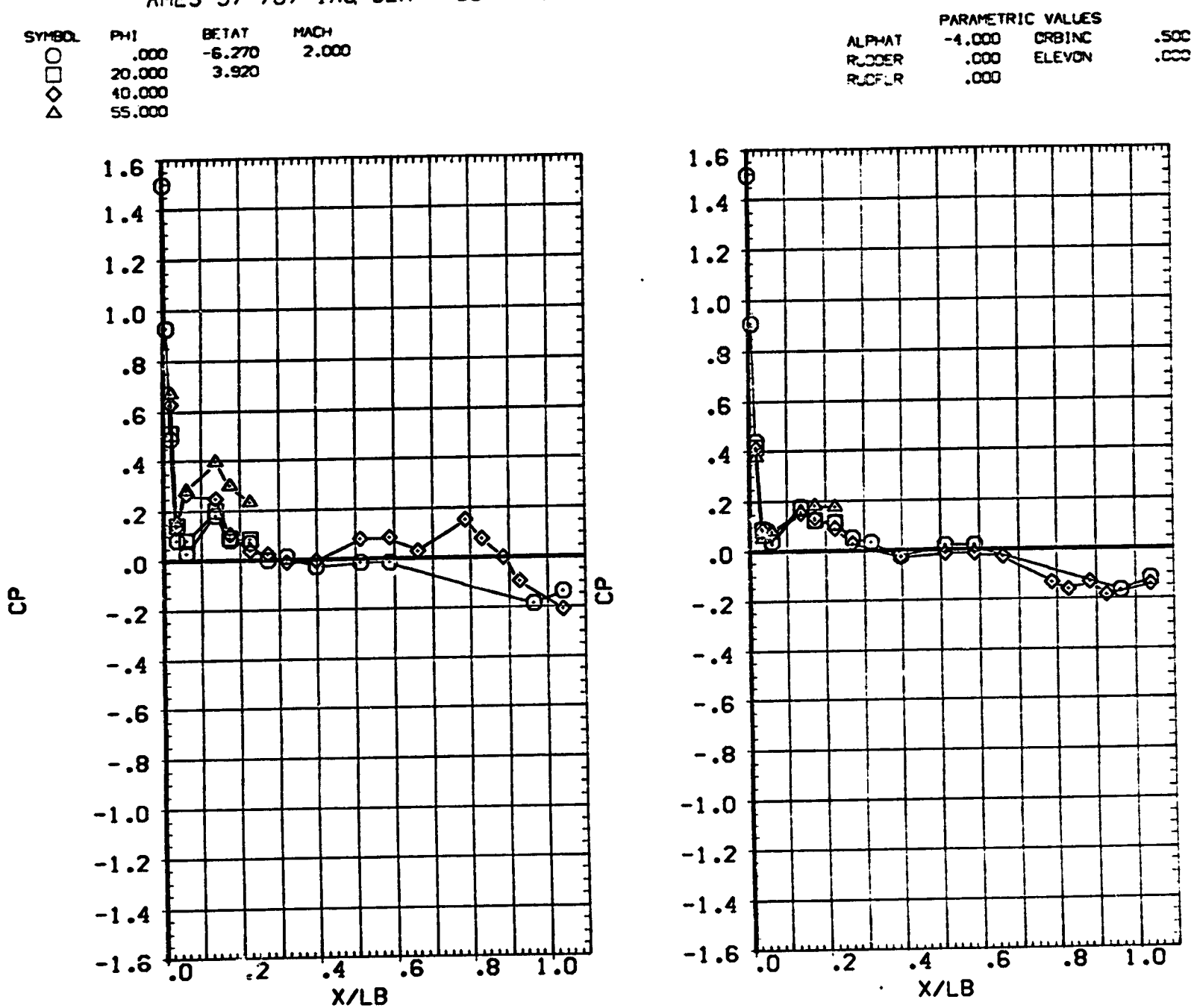
SYMBOL	ALPHA	BETA	MACH
○	150.000	7.050	1.555
□	165.000	9.070	
◇	180.000		

RUDDER	.000	ELEVON	.000
RUDFLR	.000		





LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



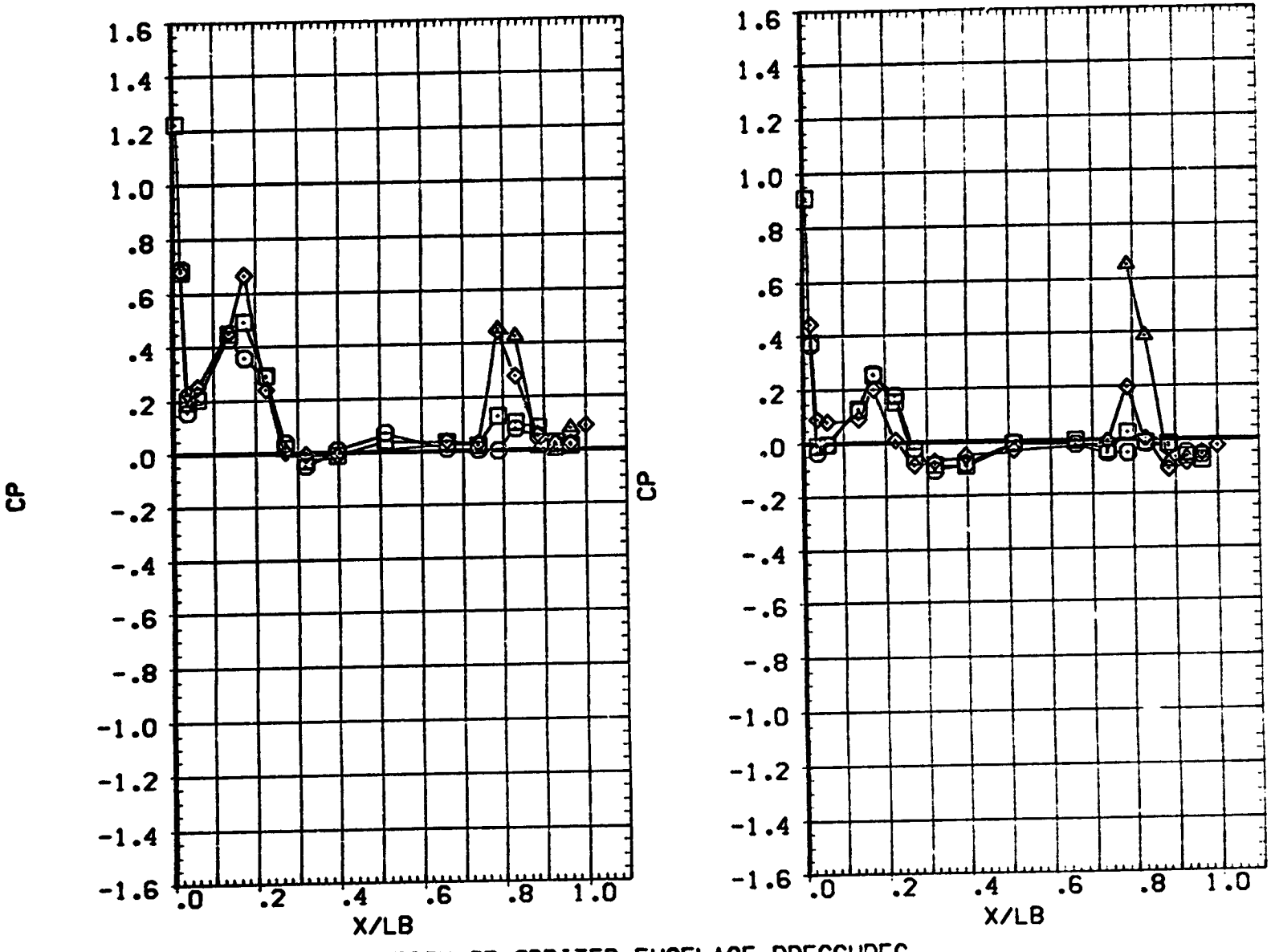
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0808)

SYMBOL	PHI	BETAT	MACH
○	70.000	-6.270	2.000
□	90.000	3.920	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



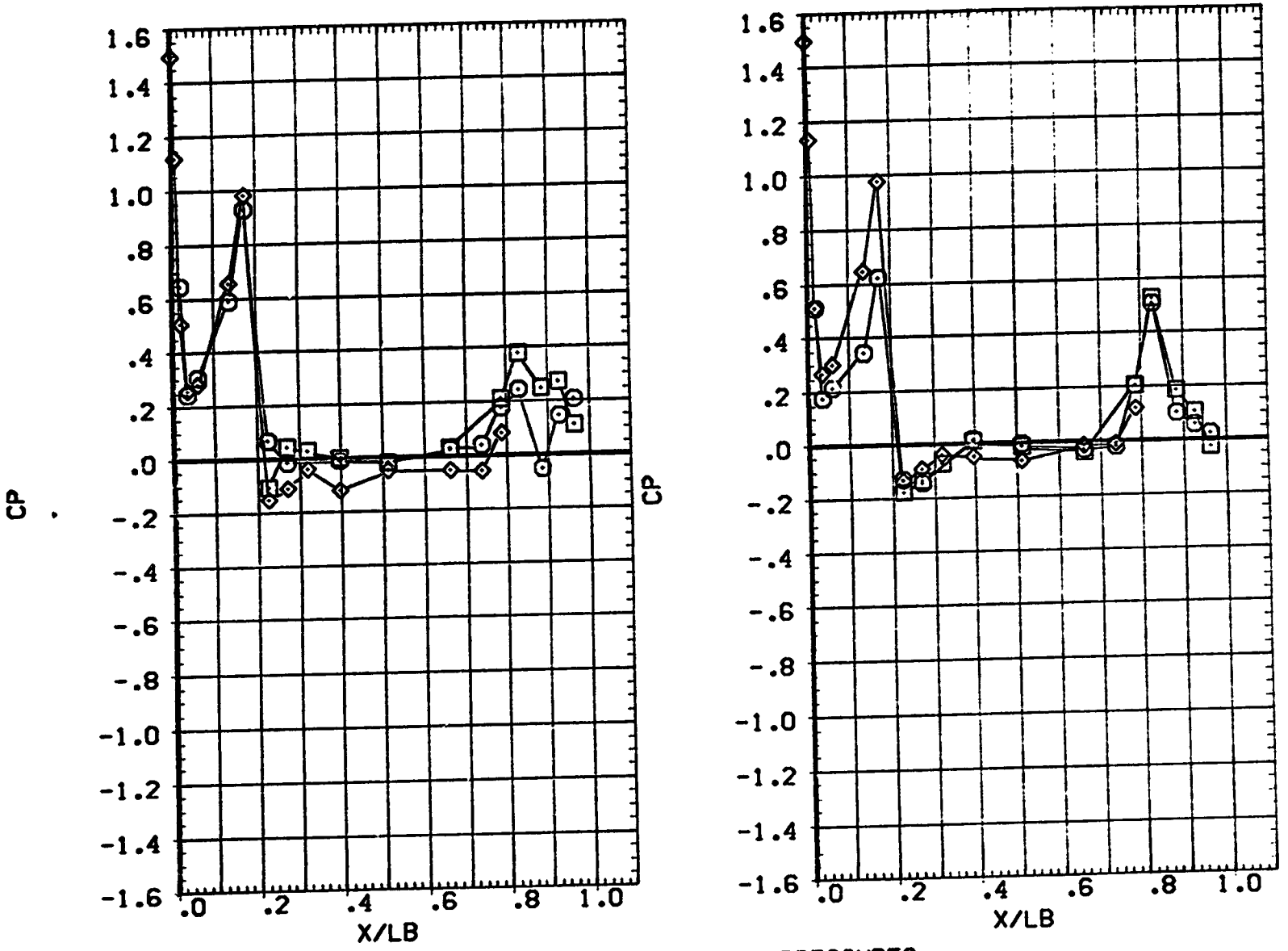
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0BC8)

SYMBOL	PHI	BETAT	MACH
○	150.000	-6.270	2.000
□	165.000	3.920	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



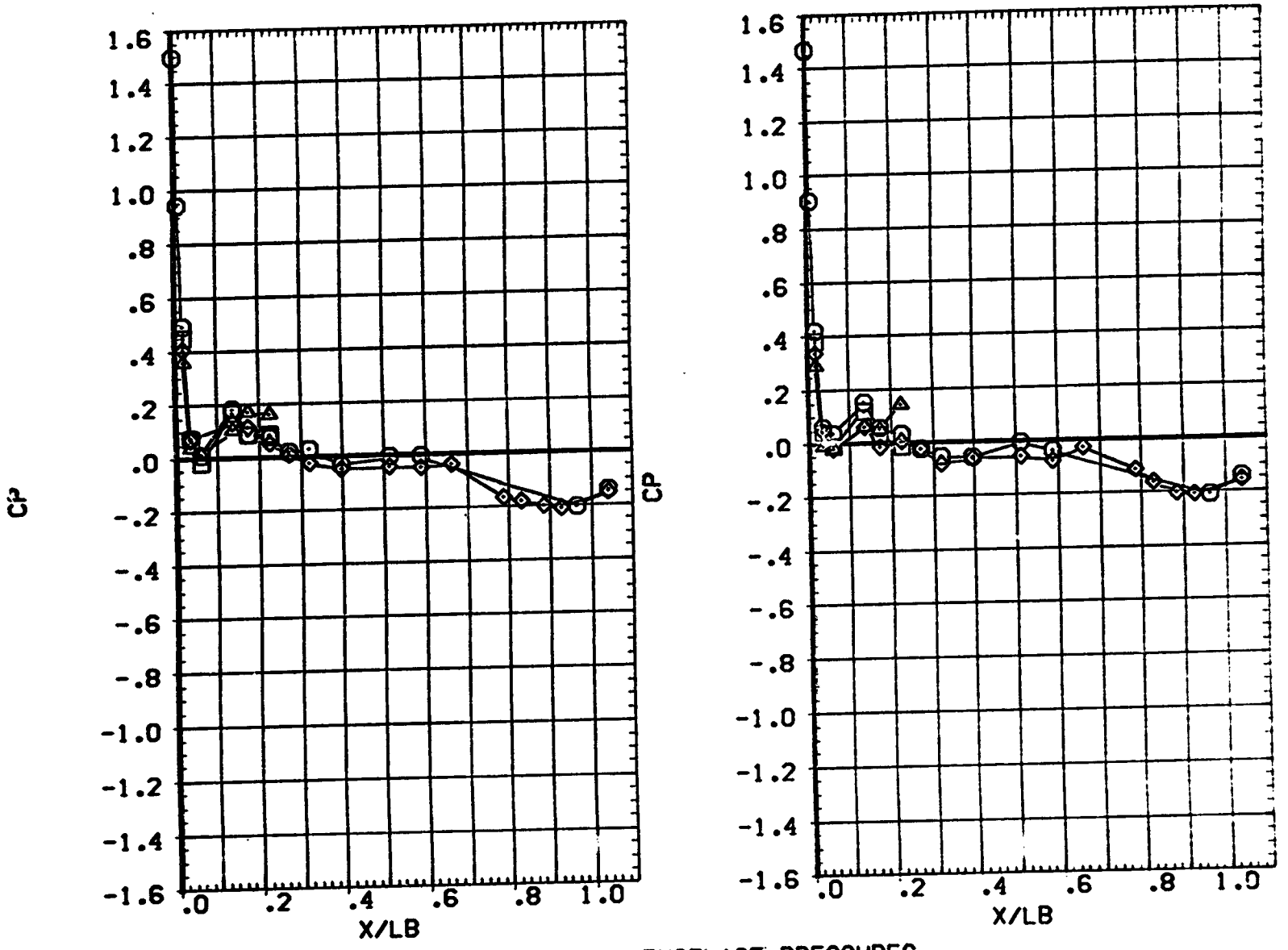
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B08)

SYMBOL	PHI	BETAT	MACH
○	.000	5.960	2.000
□	20.000	8.010	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



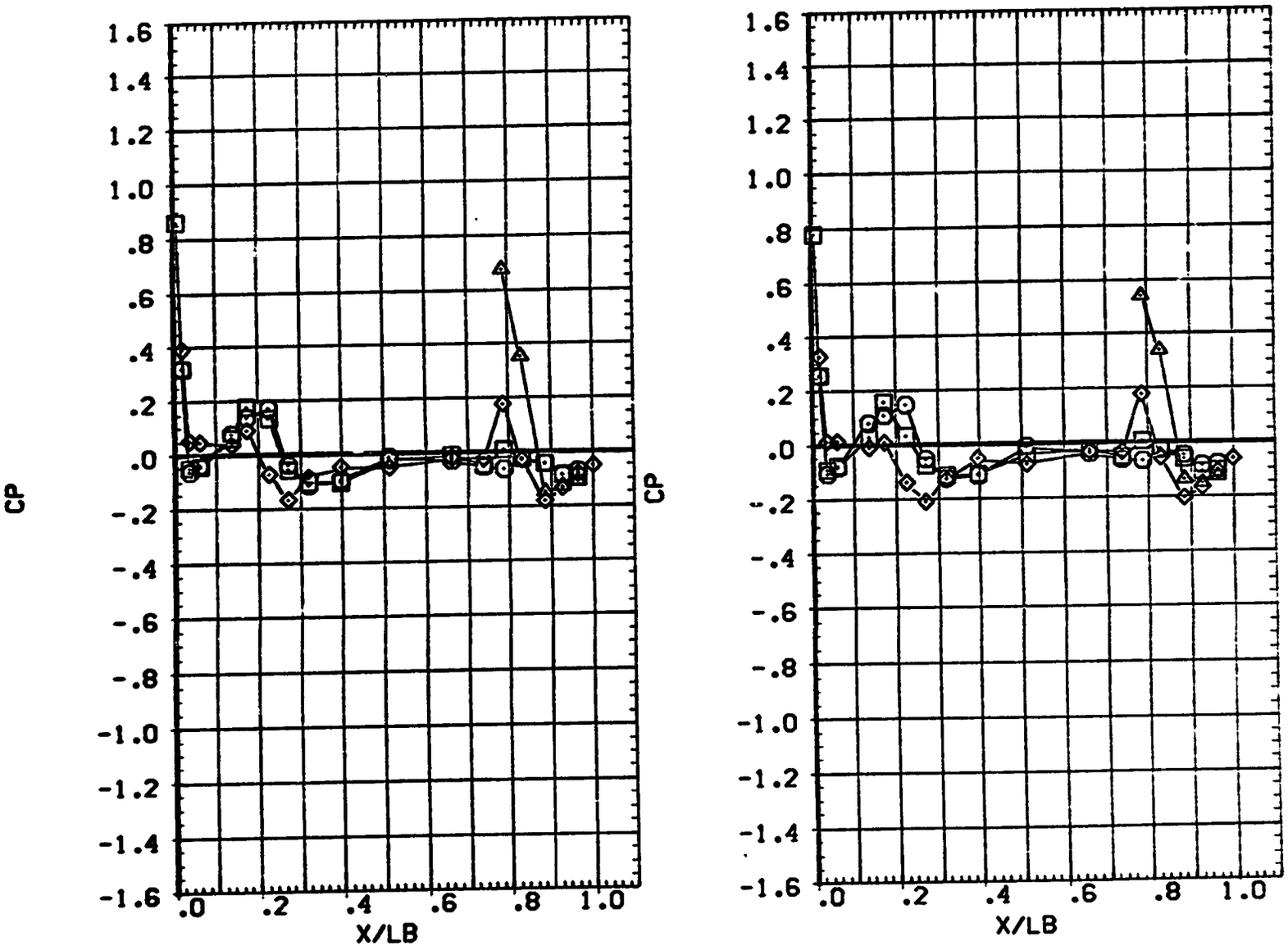
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B08)

SYMBOL	PHI	BETAT	MACH
○	70.000	5.960	2.000
□	90.000	8.010	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



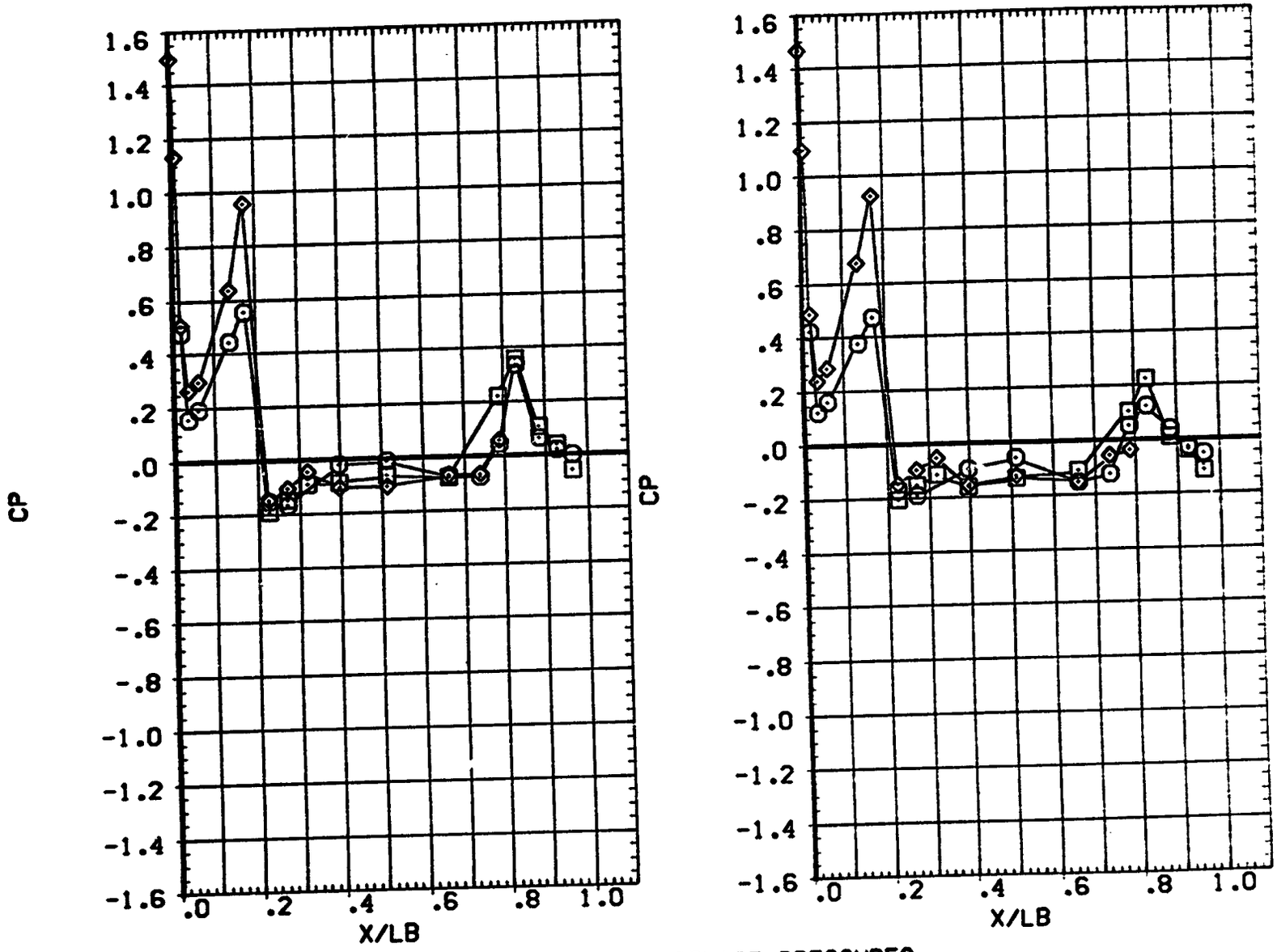
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B08)

SYMBOL	PHI	BETA	MACH
○	150.000	5.960	2.000
□	165.000	8.010	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



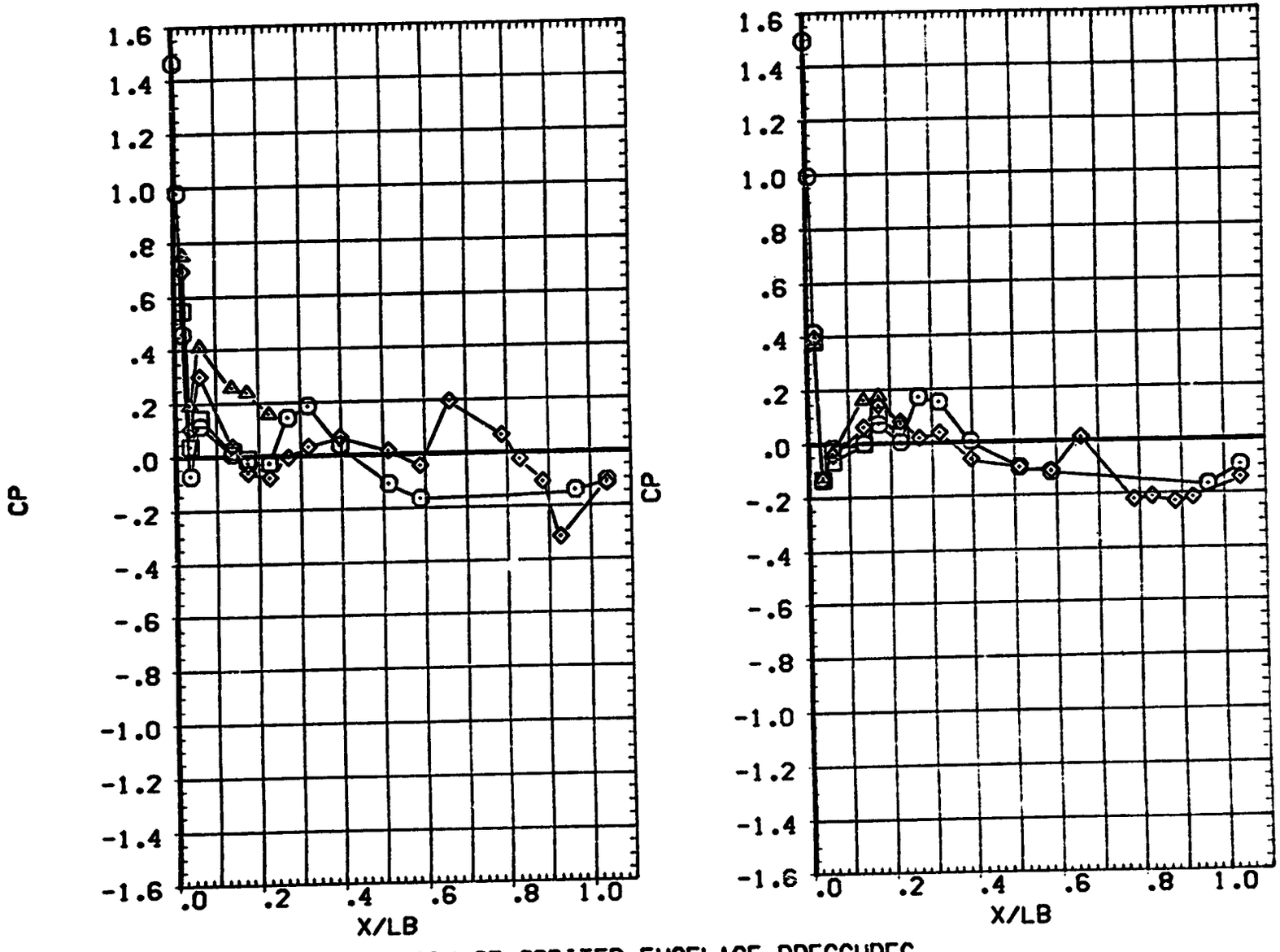
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B10)

SYMBOL	PHI	BETAT	MACH
○	.000	-6.210	1.555
□	20.000	3.650	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



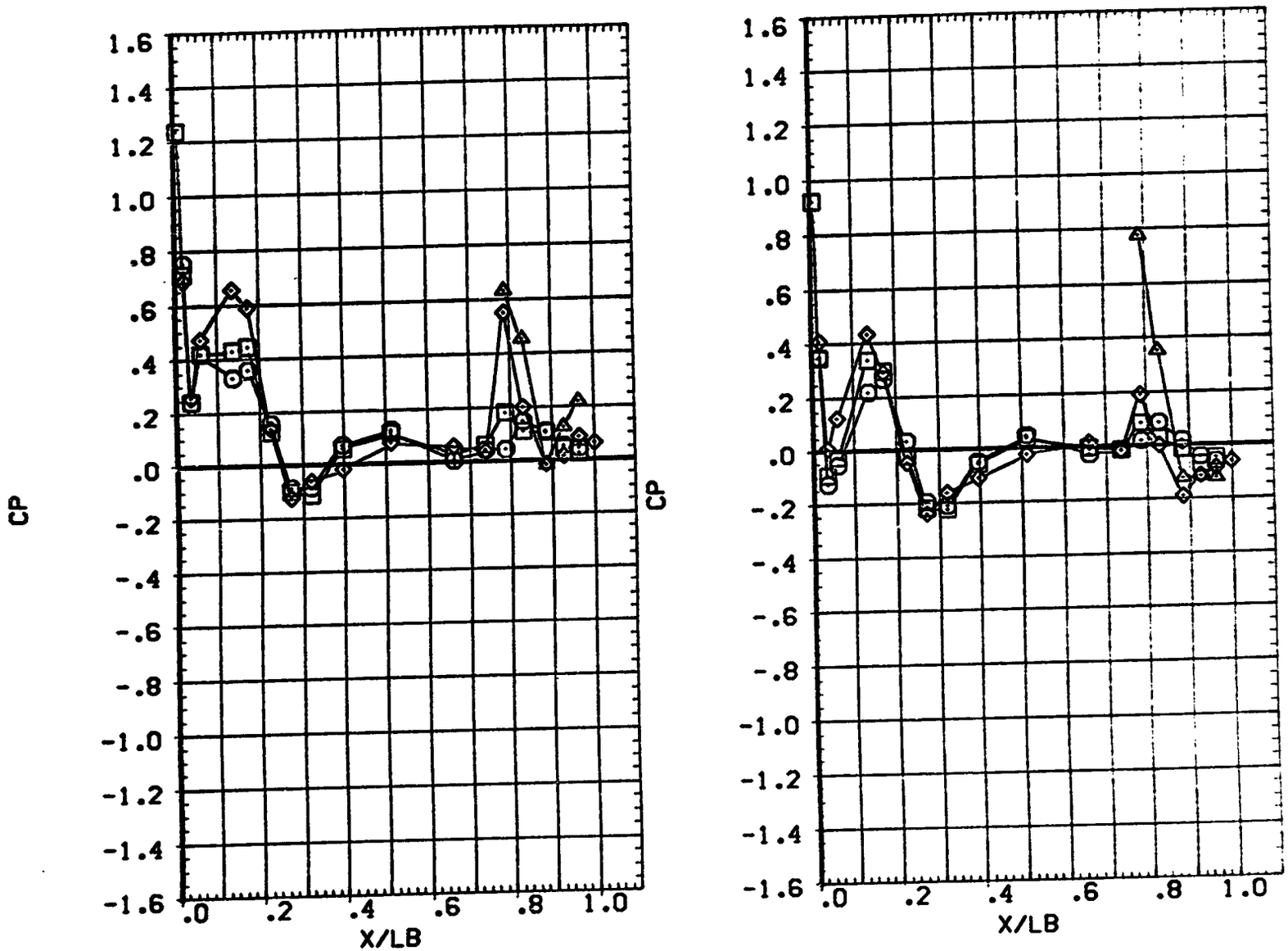
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B10)

SYMBOL	PHI	BETAT	MACH
○	70.000	-6.210	1.555
□	90.000	3.650	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



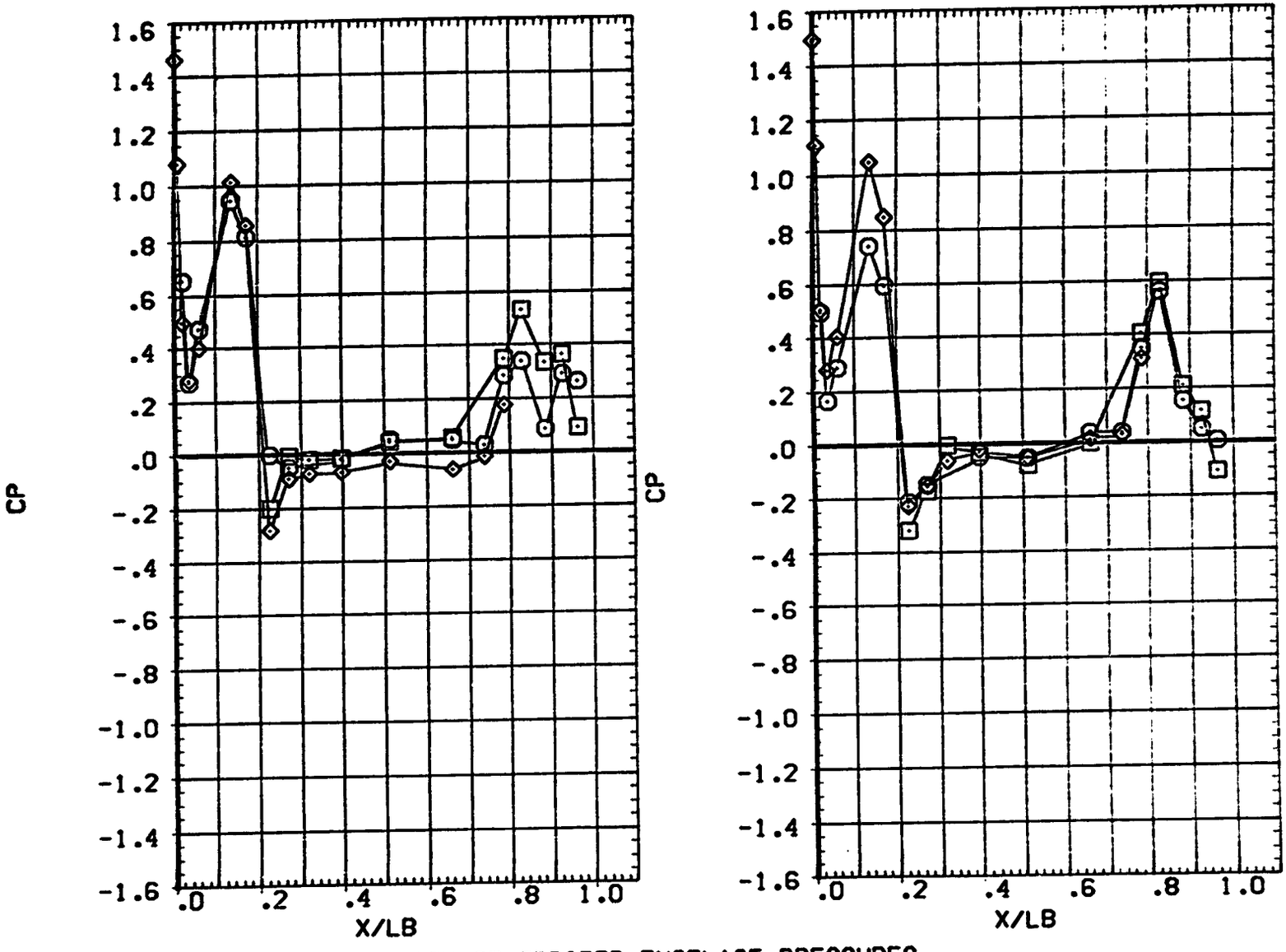
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B10)

SYMBOL	PHI	BETAT	MACH
○	150.000	-6.210	1.555
□	165.000	3.650	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	-8.000	SPEINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



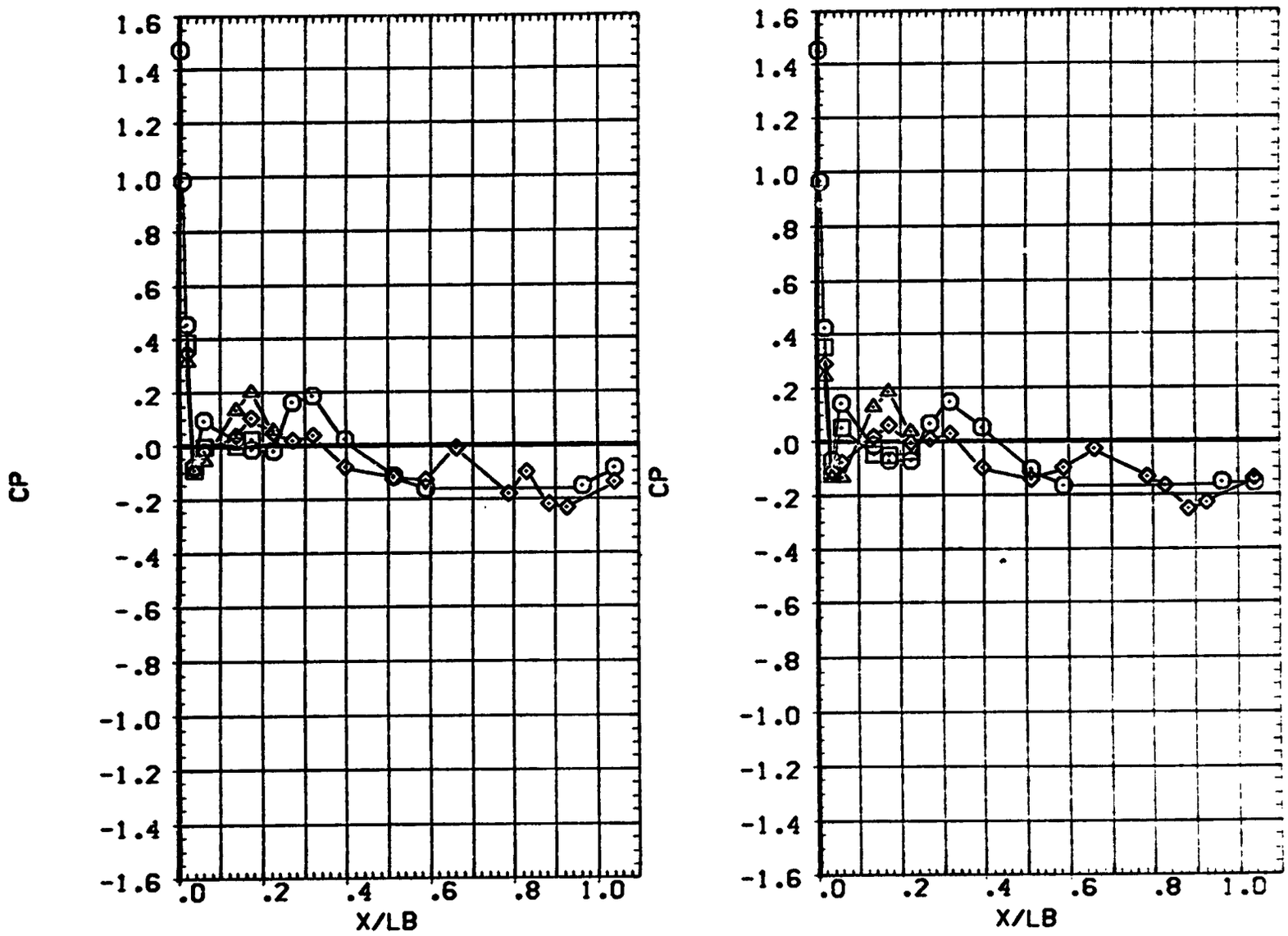
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B10)

SYMBOL	PHI	BETAT	MACH
○	.000	5.710	1.555
□	20.000	7.770	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



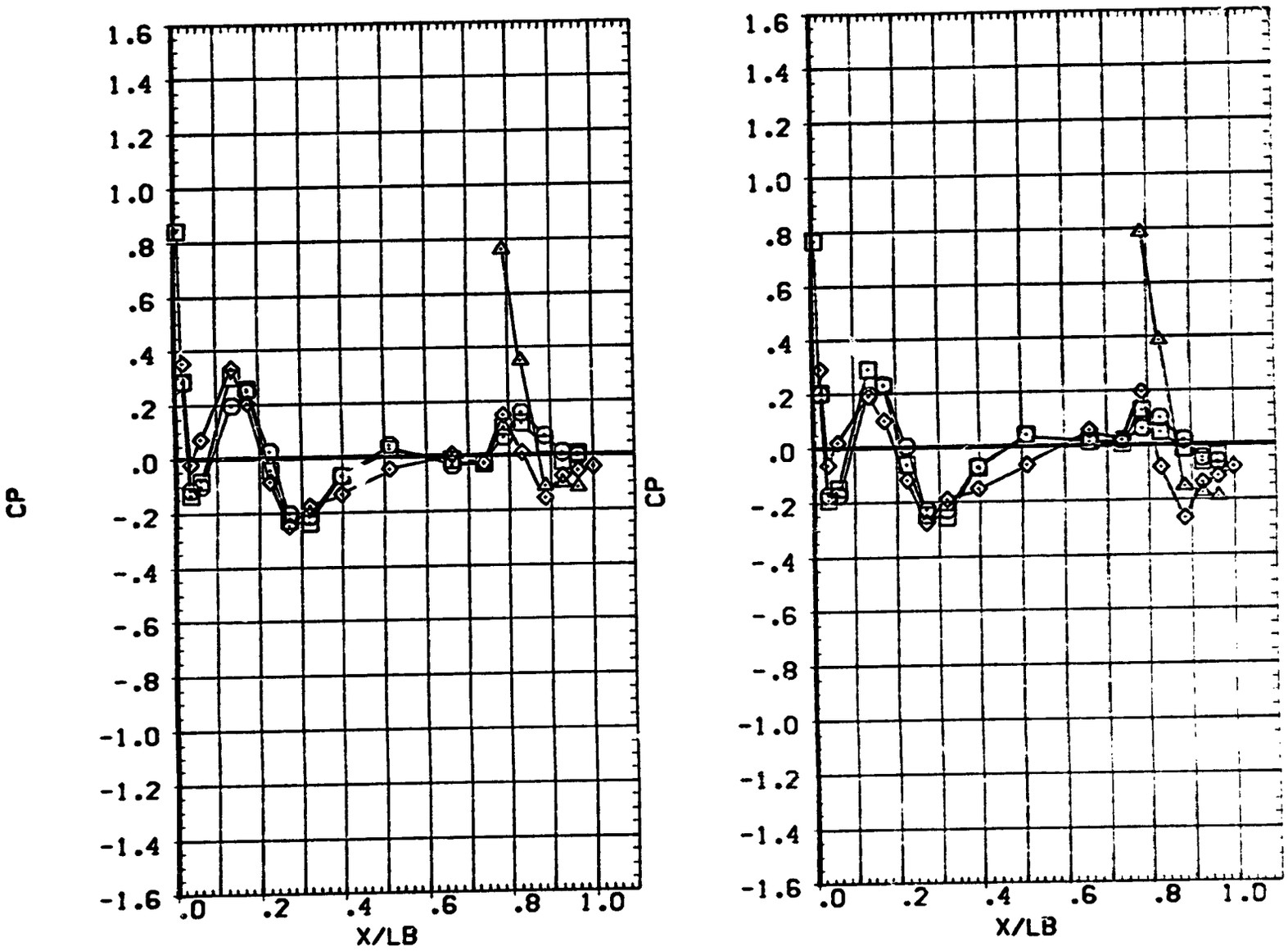
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B10)

SYMBOL	PHI	BETAT	MACH
○	70.000	5.710	1.555
□	90.000	7.770	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



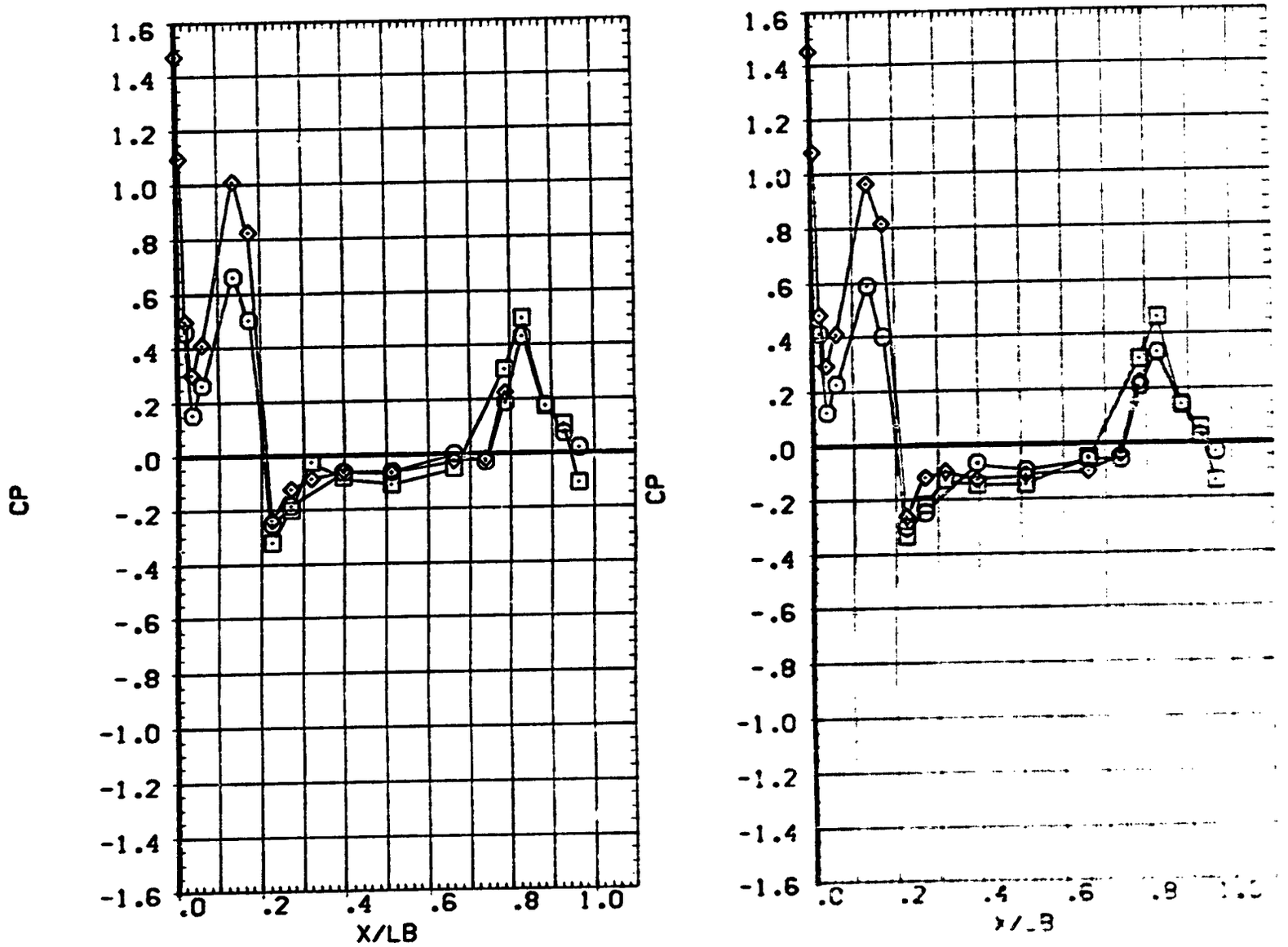
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B10)

SYMBOL	PHI	BETAT	MACH
○	150.000	5.710	1.555
□	165.000	7.770	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	-8.000	DBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



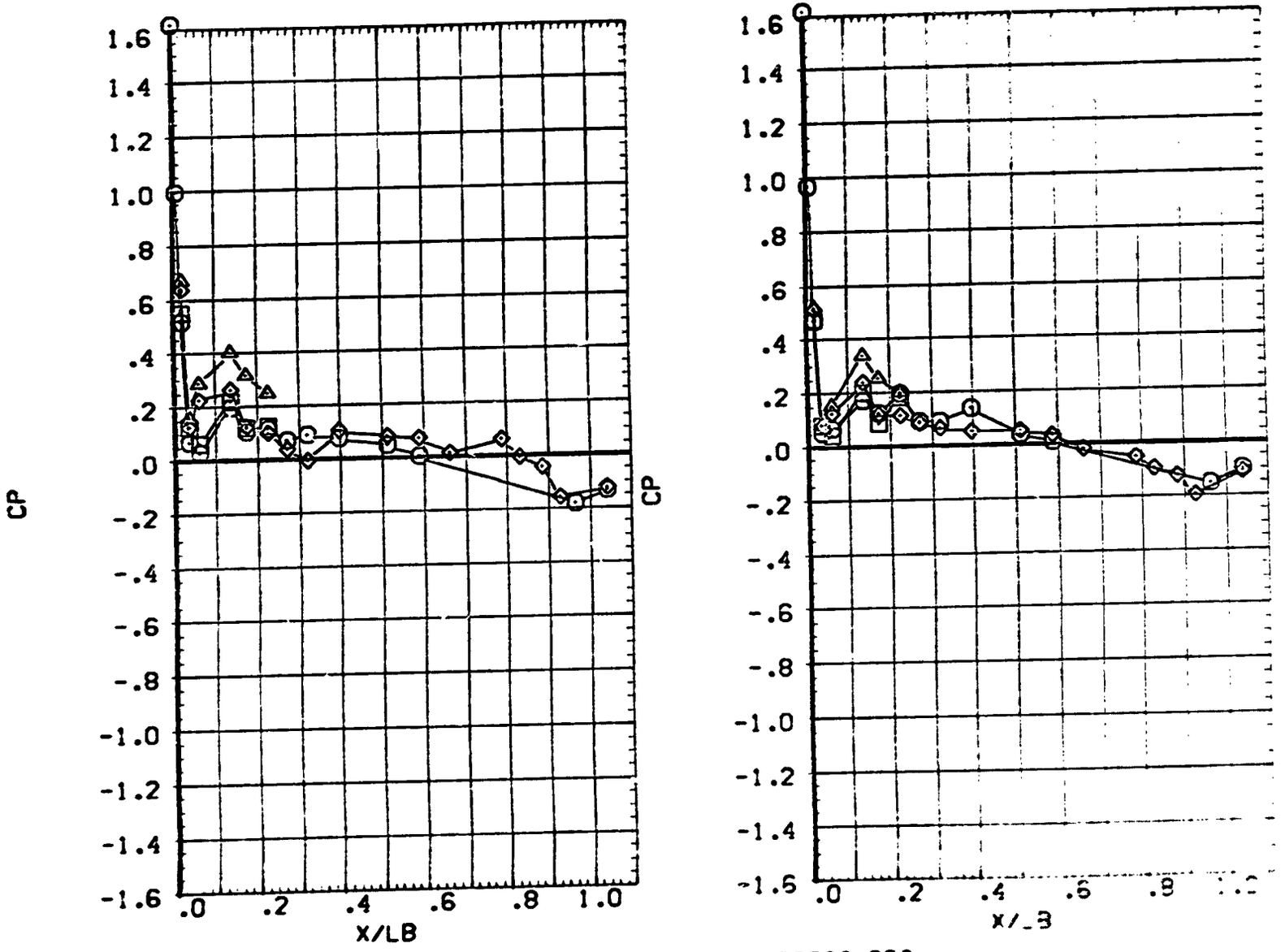
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBC3:C)

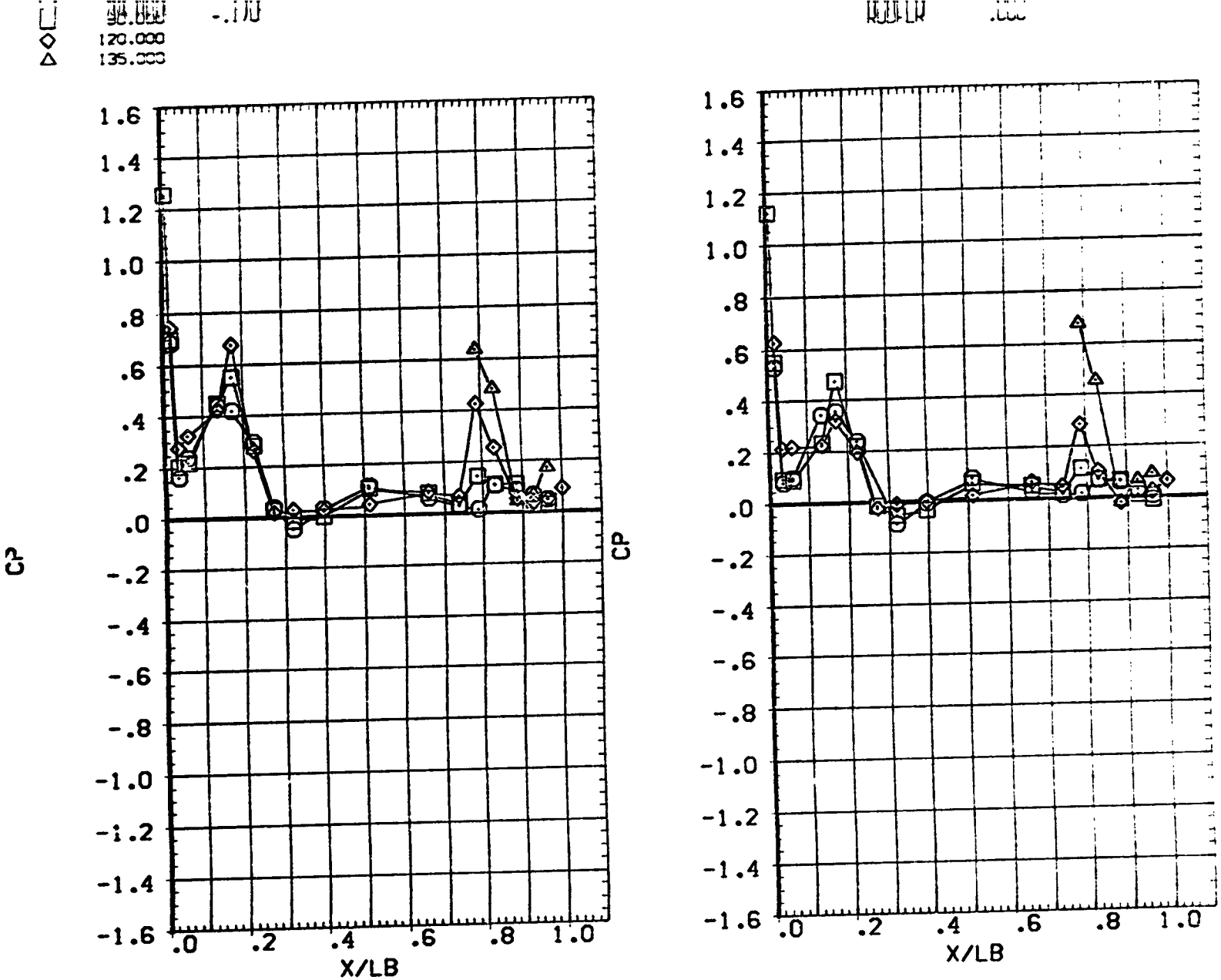
SYMBOL	PHI	BETAT	MACH
○	.000	-4.280	2.000
□	20.000	-.170	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

A_PHAT	-8.000	[illegible]	.500
R_ODER	.000	[illegible]	.000
R_O_LR	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



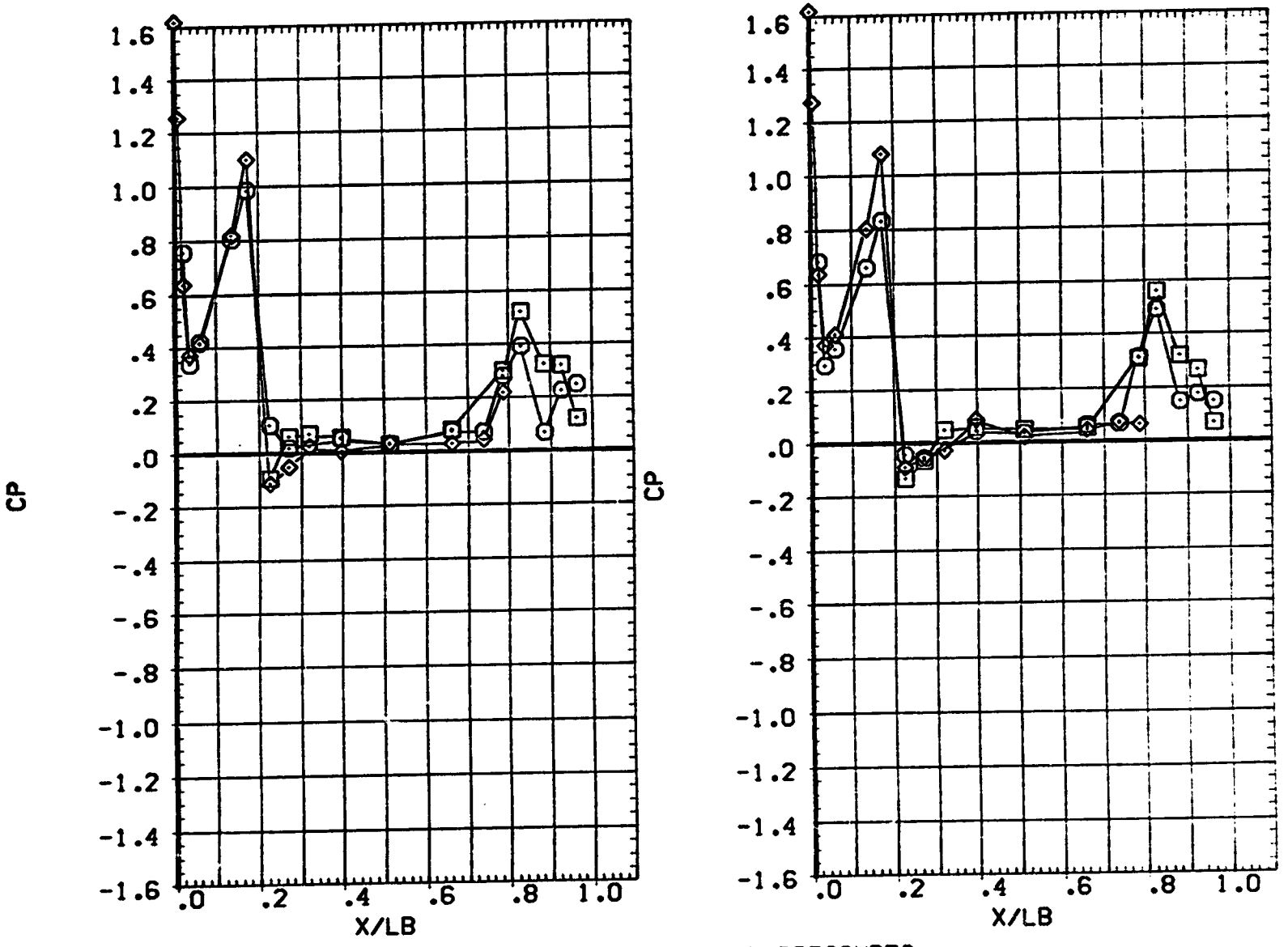
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B10)

SYMBOL	PHI	BETAT	MACH
○	150.000	-4.280	2.000
□	165.000	-.170	
◇	180.000		

PARAMETRIC VALUES

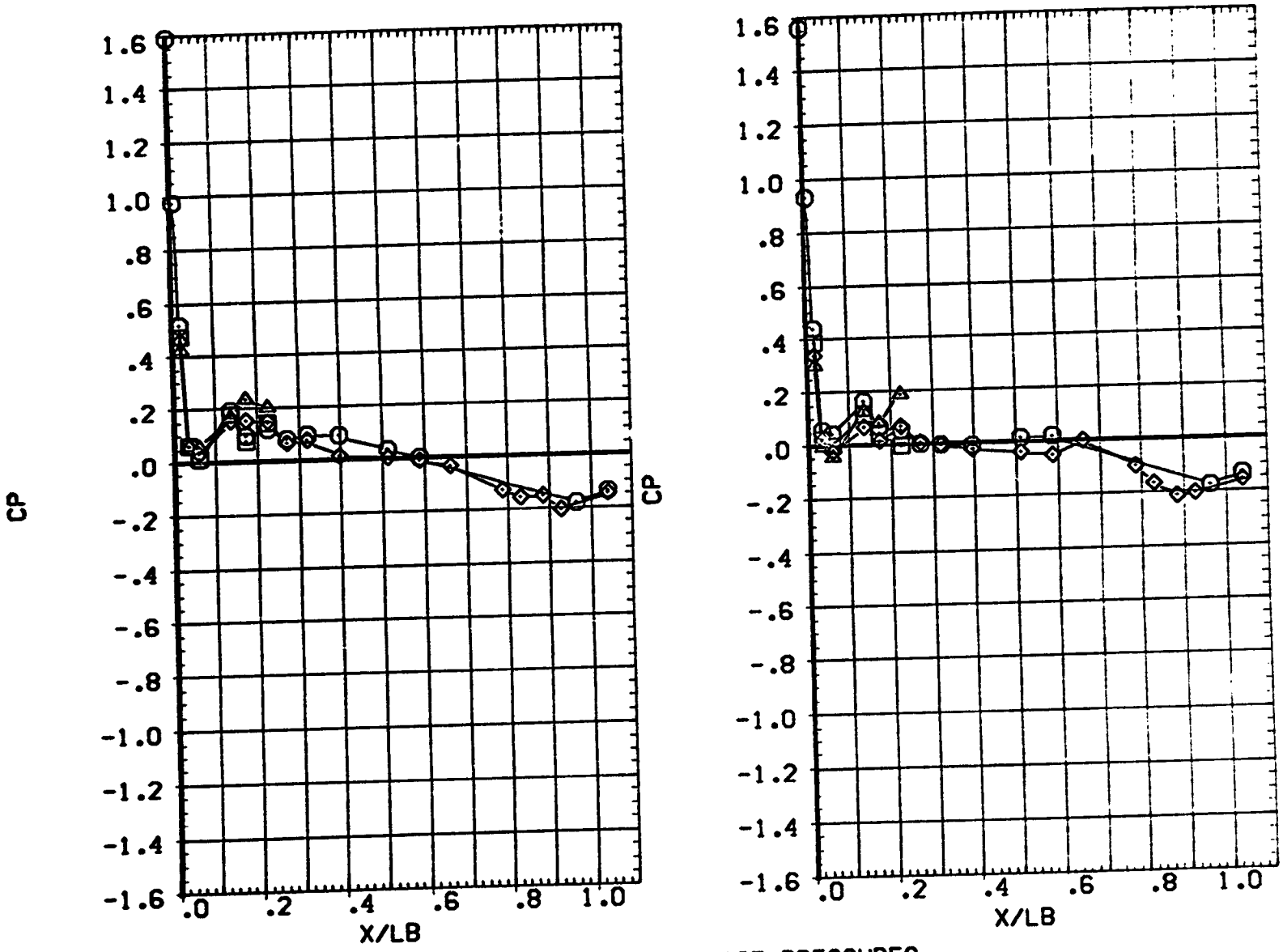
ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL	PHI	BETAT	MACH
○	.000	3.940	2.000
□	20.000	8.050	
◇	40.000		
△	55.000		

ALPHAT	-8.000	[illegible]	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



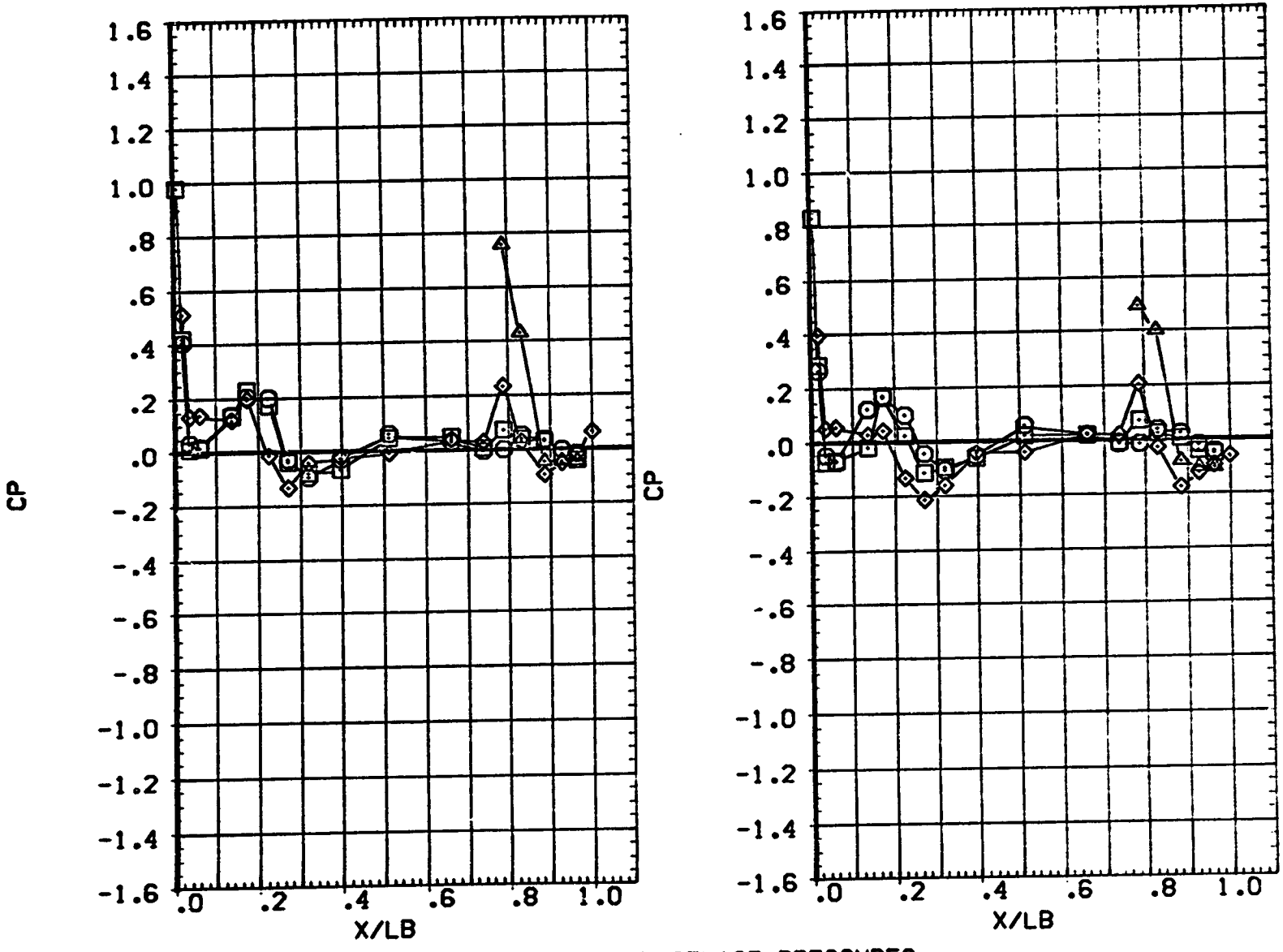
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B10)

SYMBOL	PHI	BETAT	MACH
○	70.000	3.940	2.000
□	90.000	8.050	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

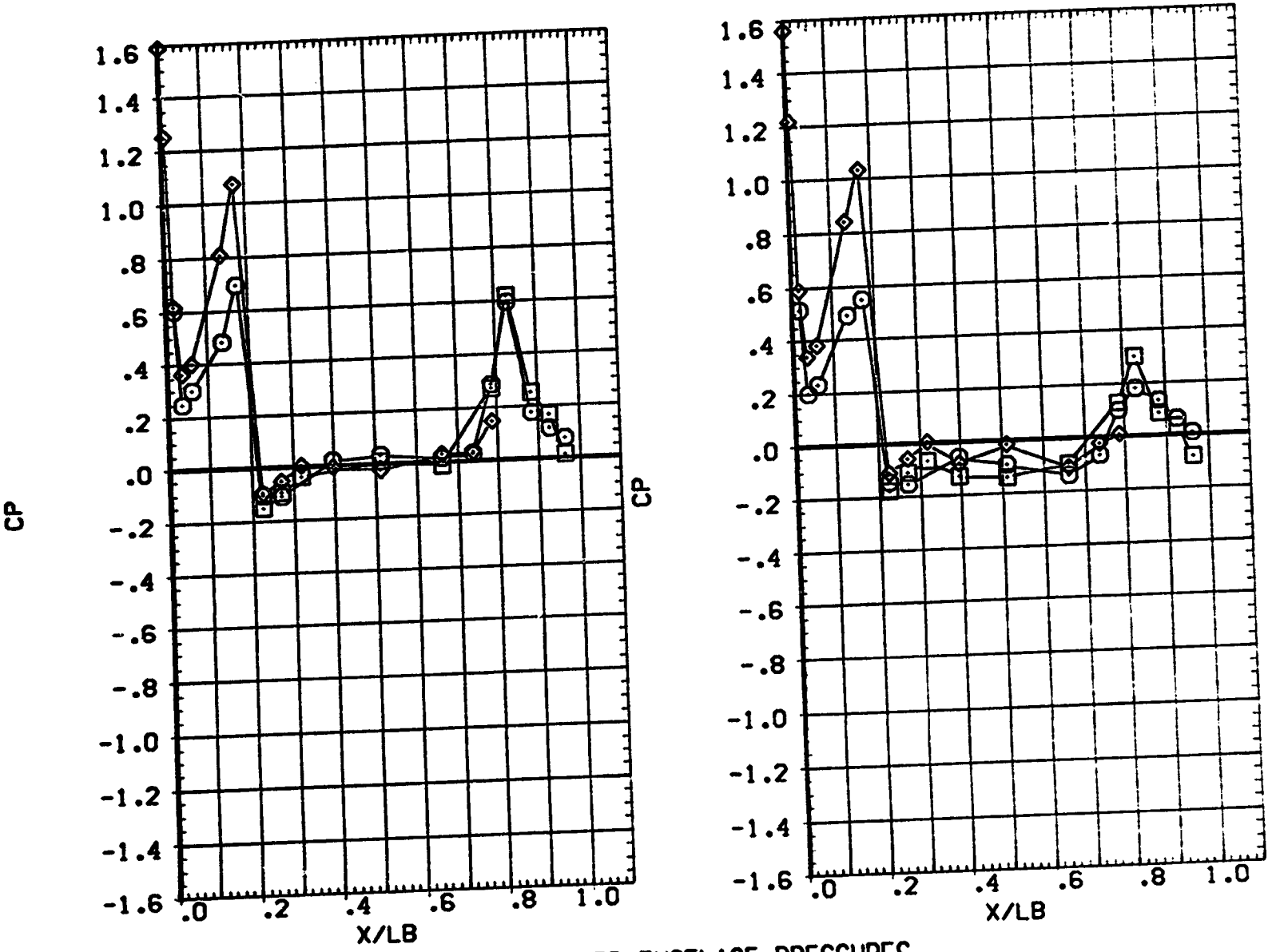
ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL	PHI	BETAT	MACH
○	150.000	3.940	2.000
□	165.000	8.050	
◇	180.000		

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



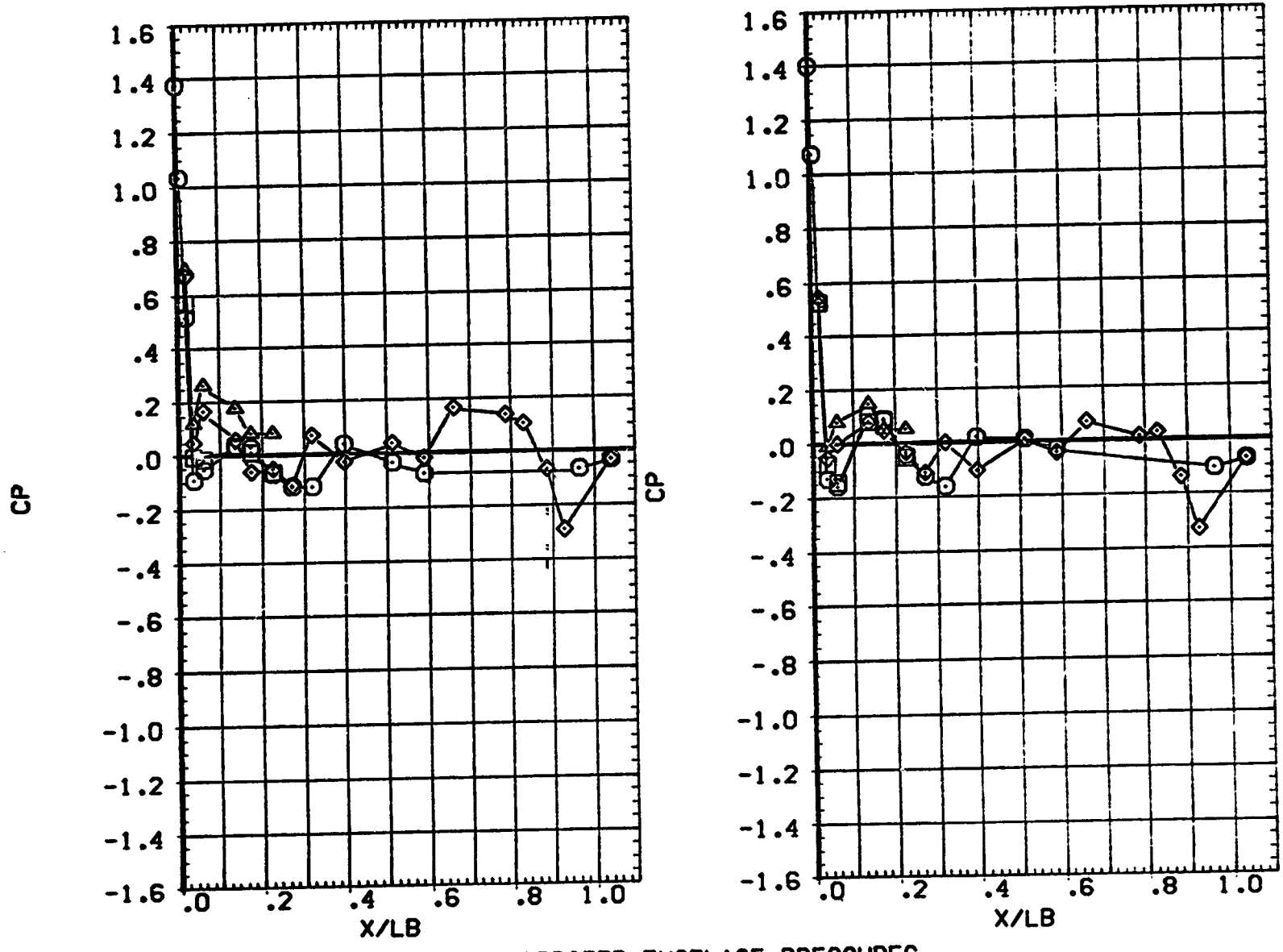
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBOB13)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.240	1.555
□	20.000	-.140	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



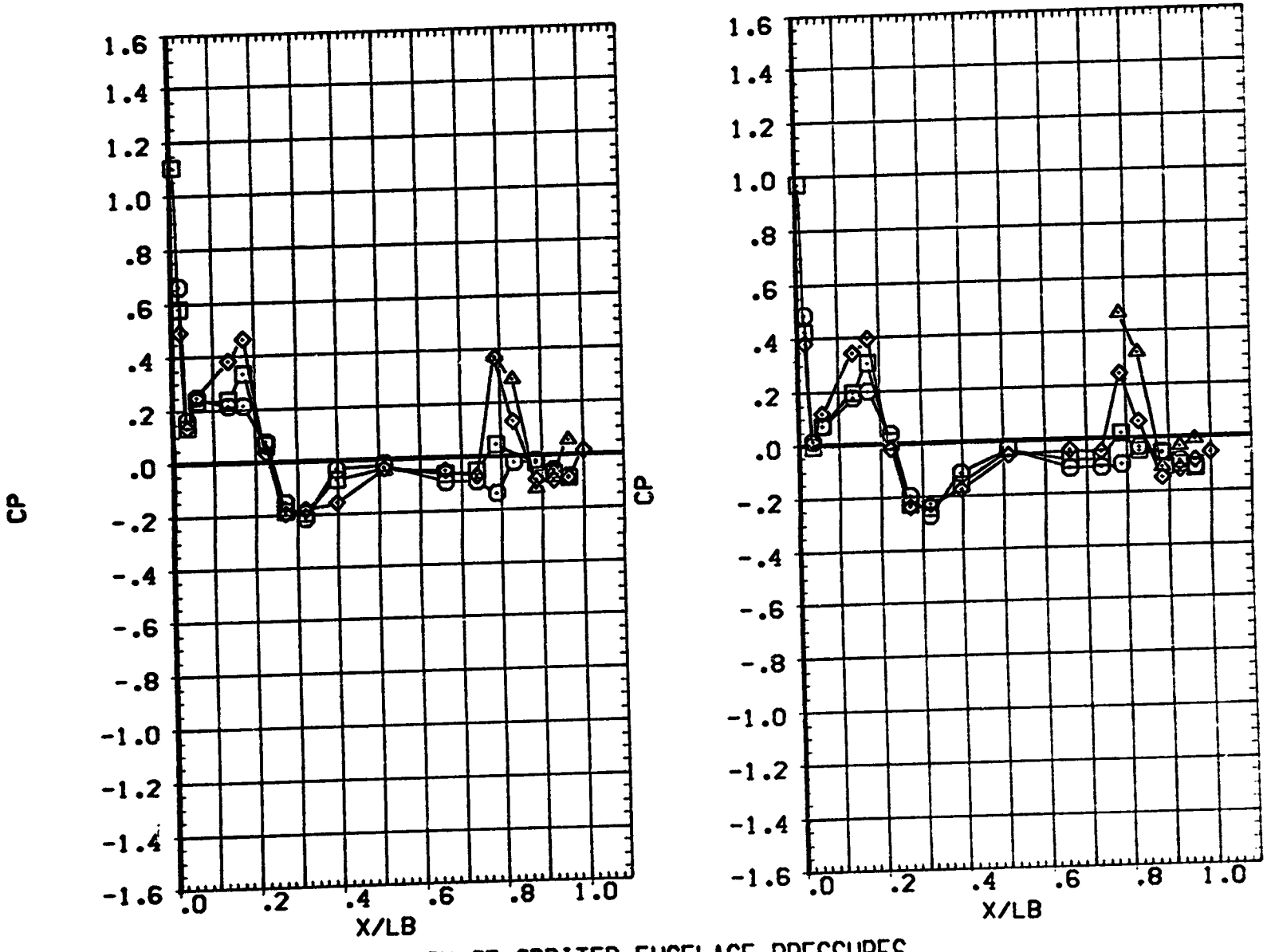
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE [illegible]

SYMBOL	PHI	BETAT	MACH
○	70.000	-4.240	1.555
□	90.000	-.140	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



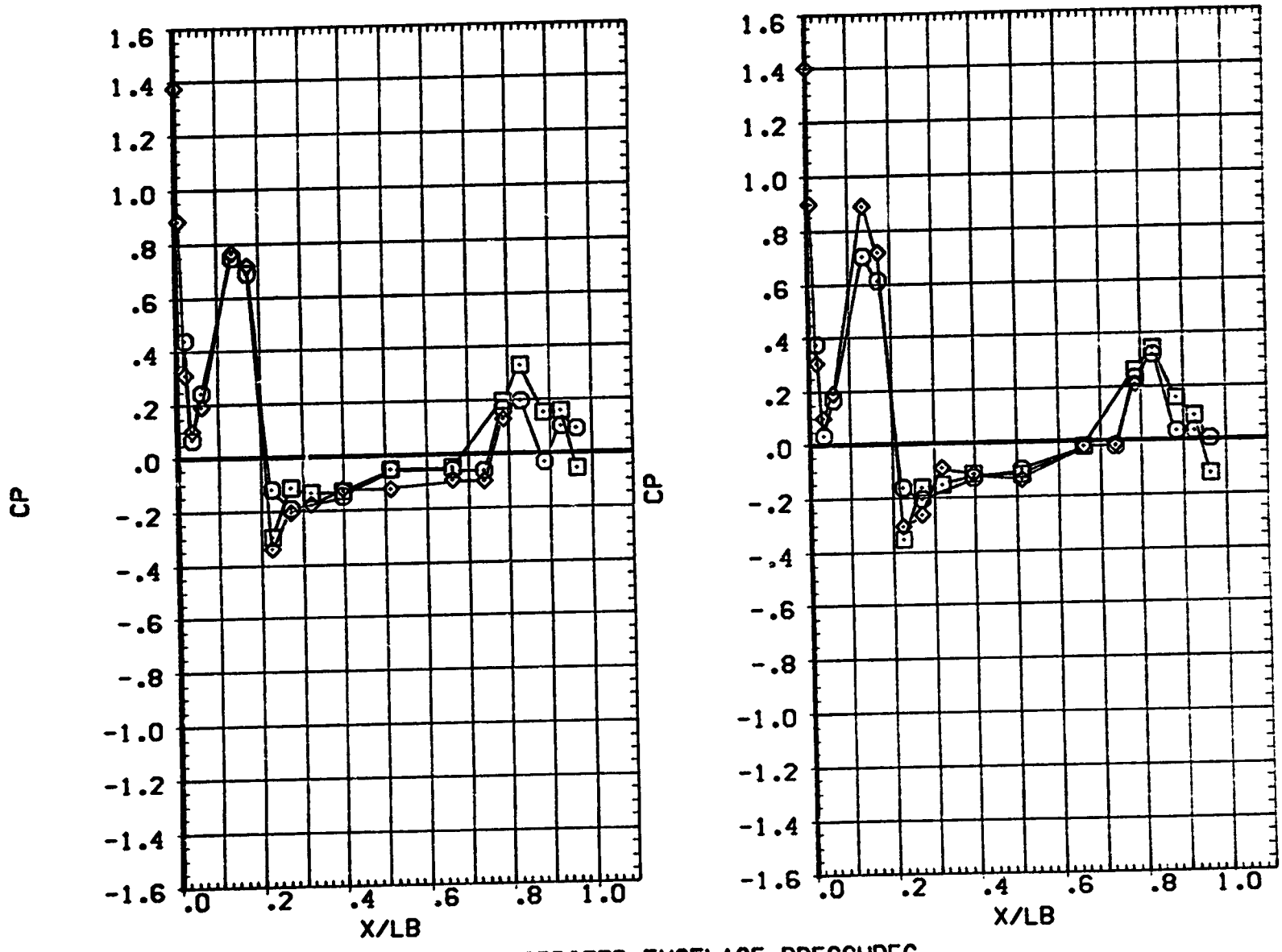
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B13)

SYMBOL	PHI	BETAT	MACH
○	150.000	-4.240	1.555
□	165.000	-.140	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



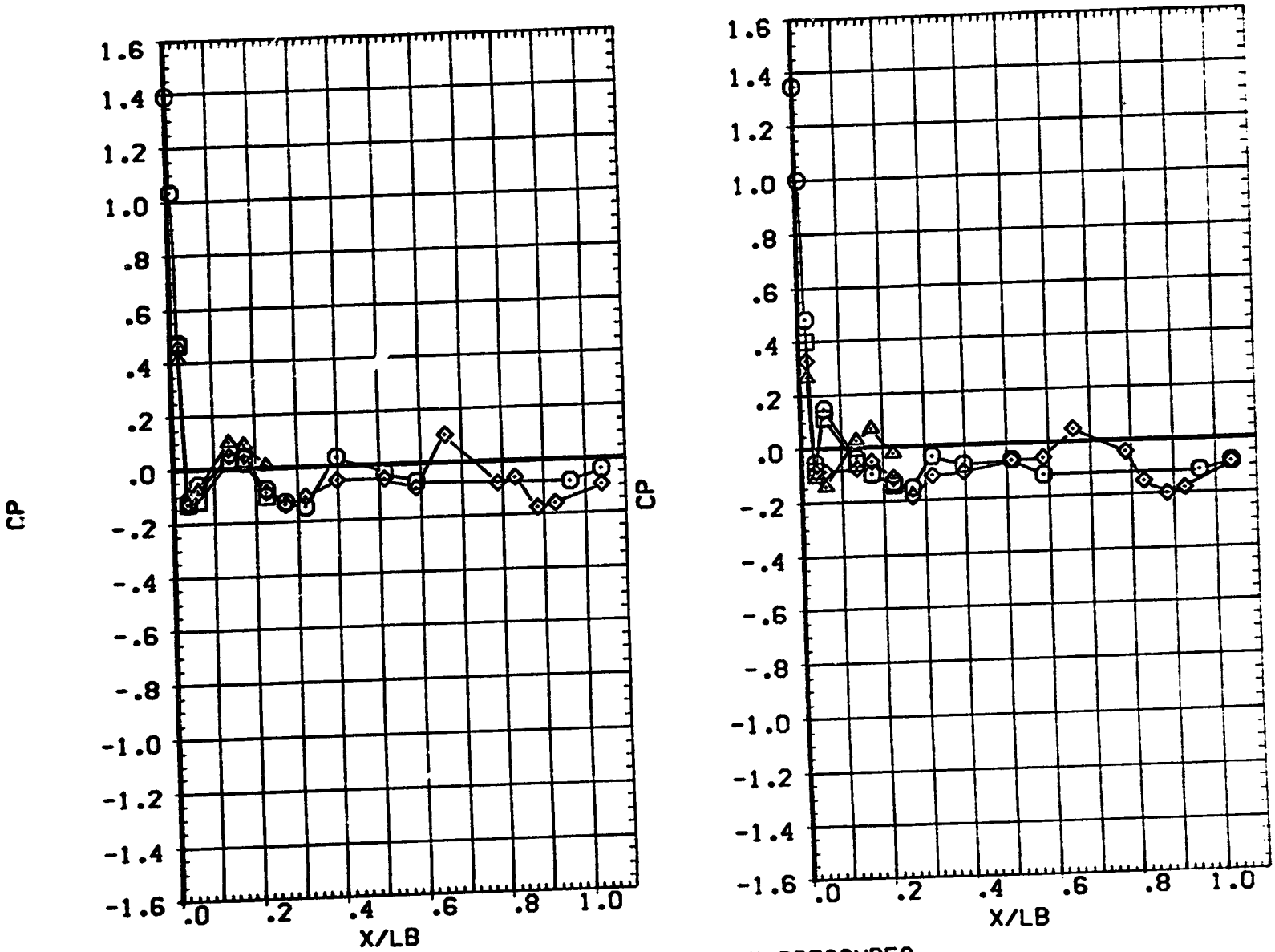
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B13)

SYMBOL	PHI	BETAT	MACH
○	.000	3.940	1.555
□	20.000	8.030	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



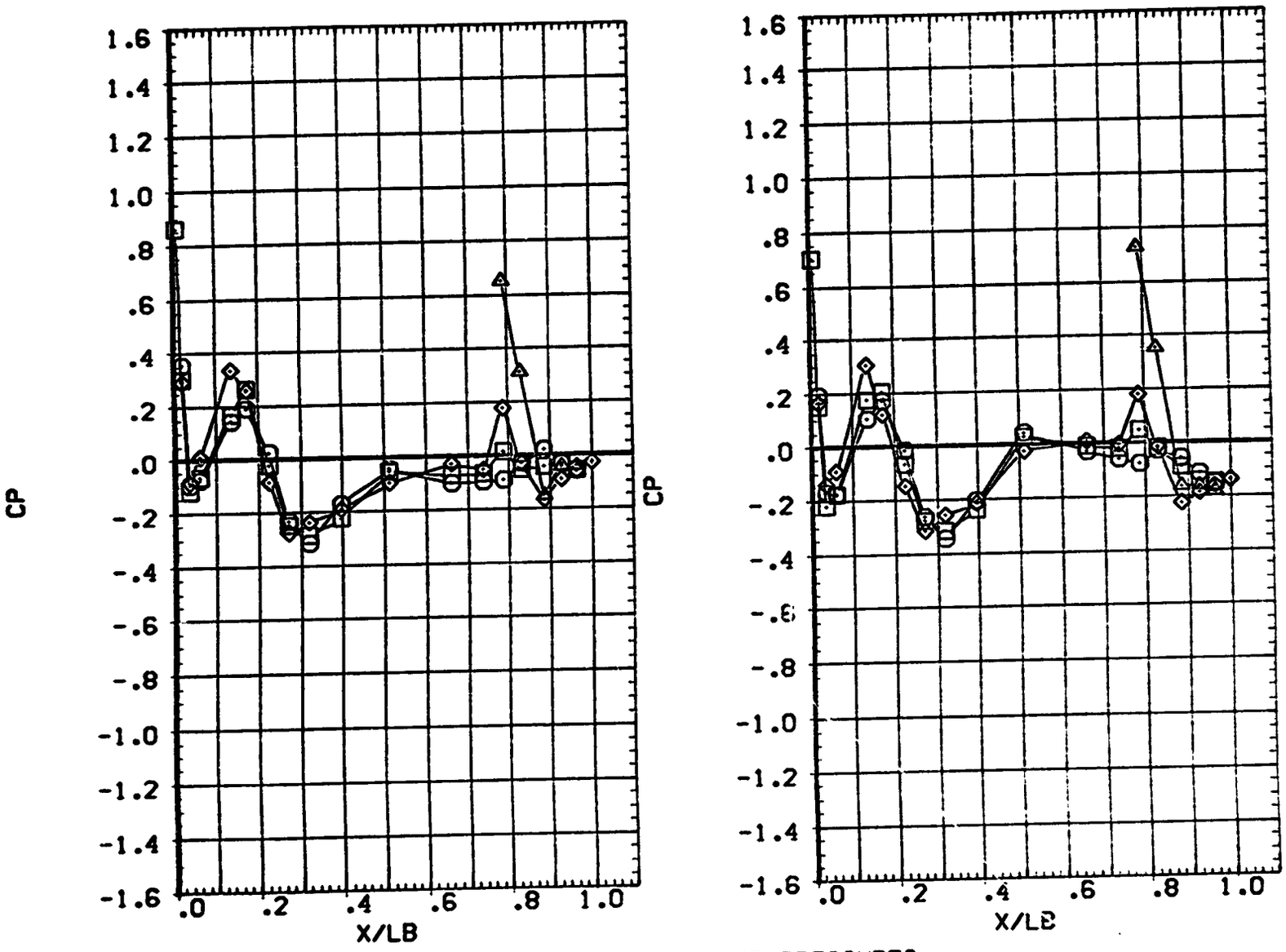
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBOB13)

SYMBOL	PHI	BETAT	MACH
○	70.000	3.940	1.555
□	90.000	8.030	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



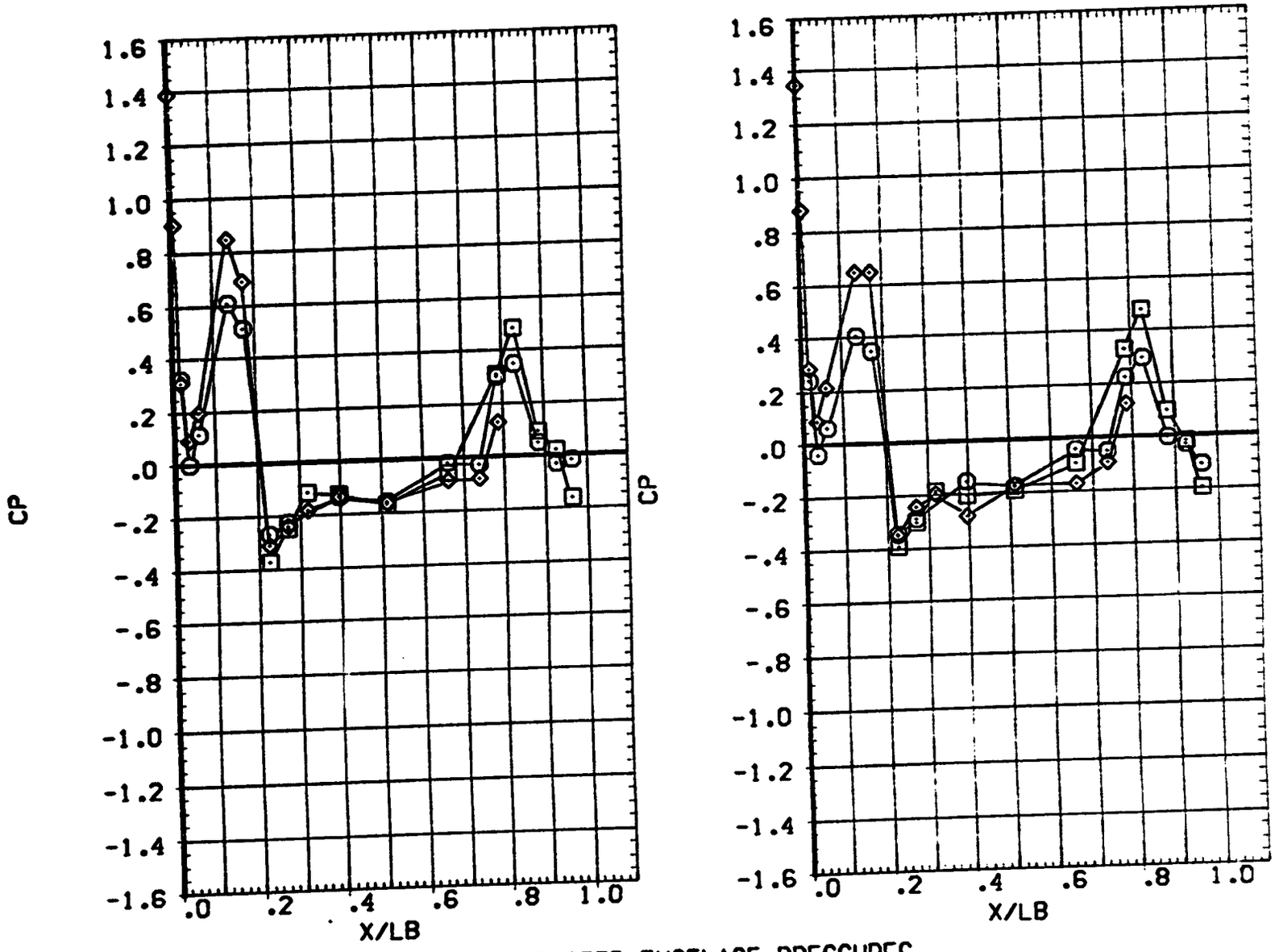
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B13)

SYMBOL	PHI	BETAT	MACH
○	150.000	3.940	1.555
□	165.000	8.030	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



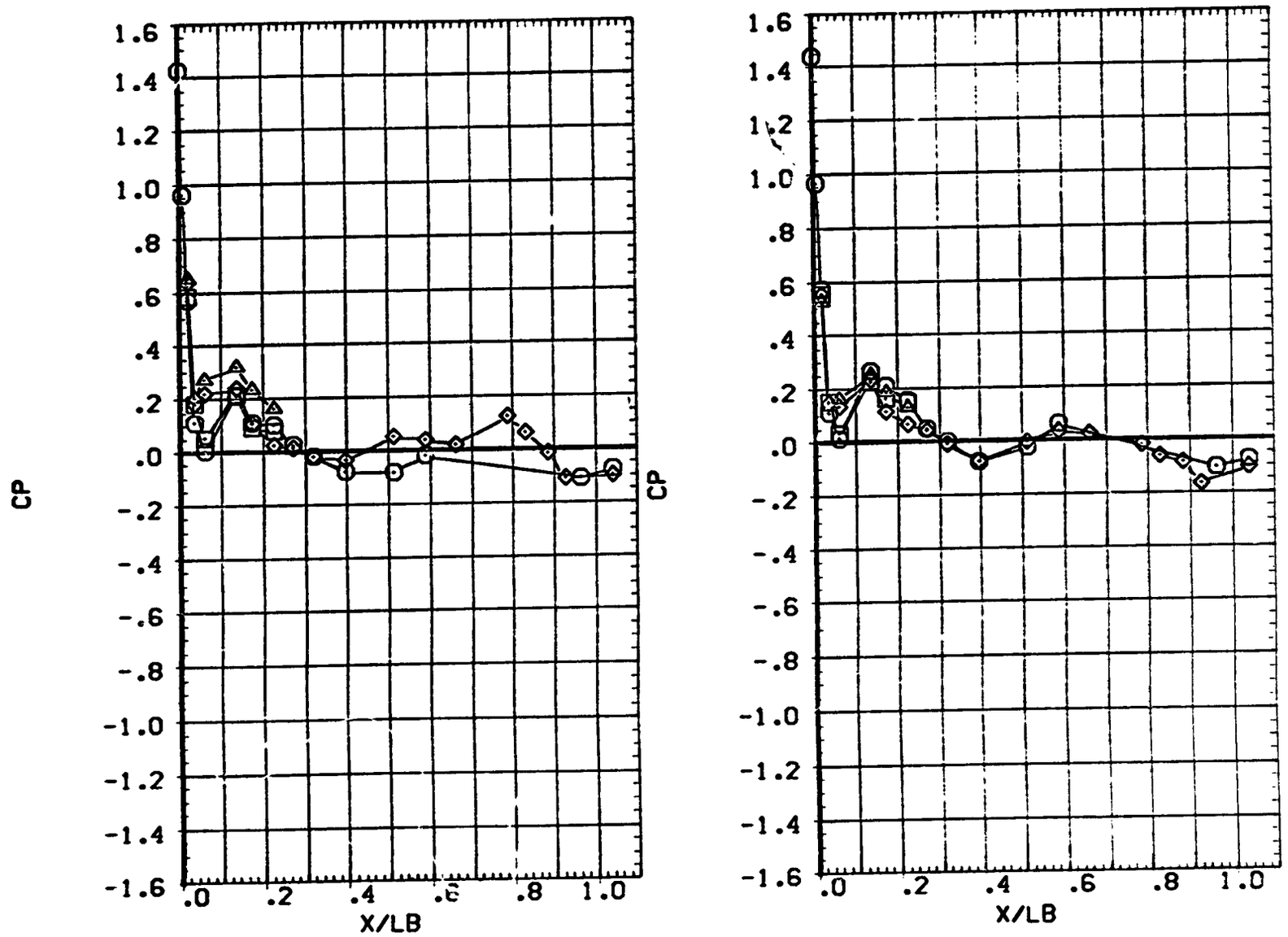
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0313)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.220	2.000
□	20.000	-.140	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDLR	.000		



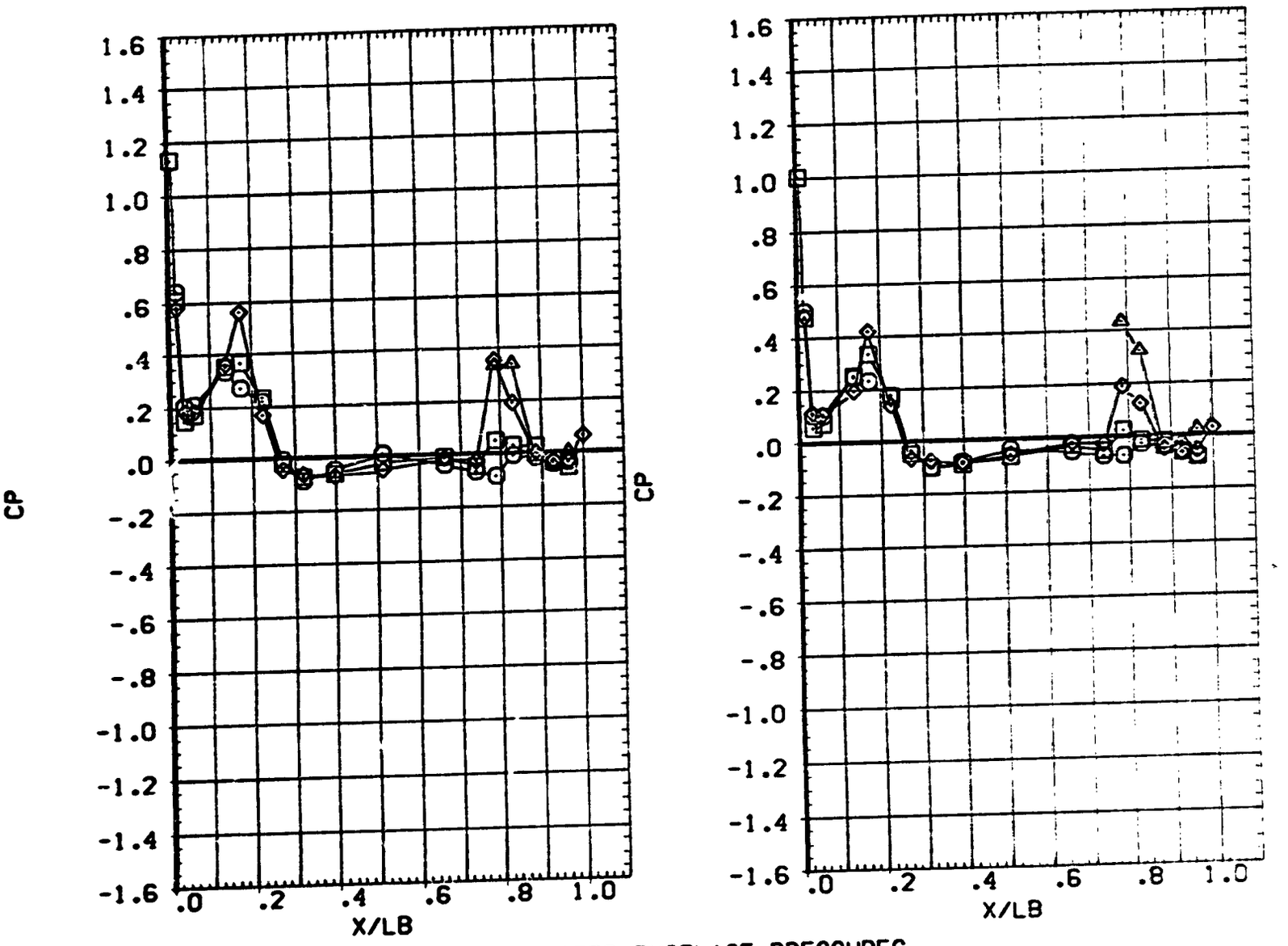
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B13)

SYMBOL	PHI	BETAT	MACH
○	70.000	-4.220	2.000
□	90.000	-.140	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	SPEINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



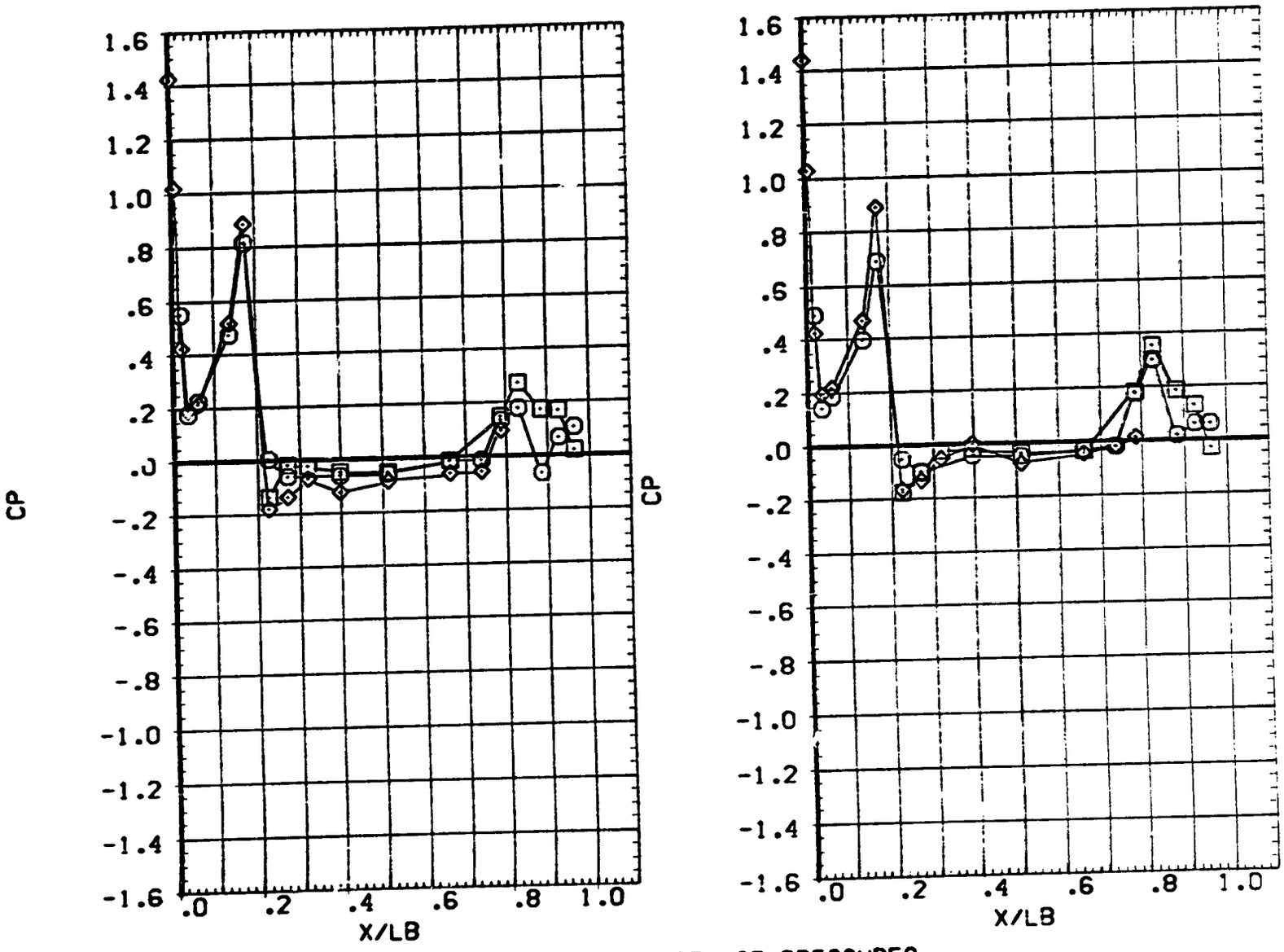
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBOB13)

SYMBOL	PHI	BETAT	MACH
○	150.000	-4.220	2.000
□	165.000	-.140	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



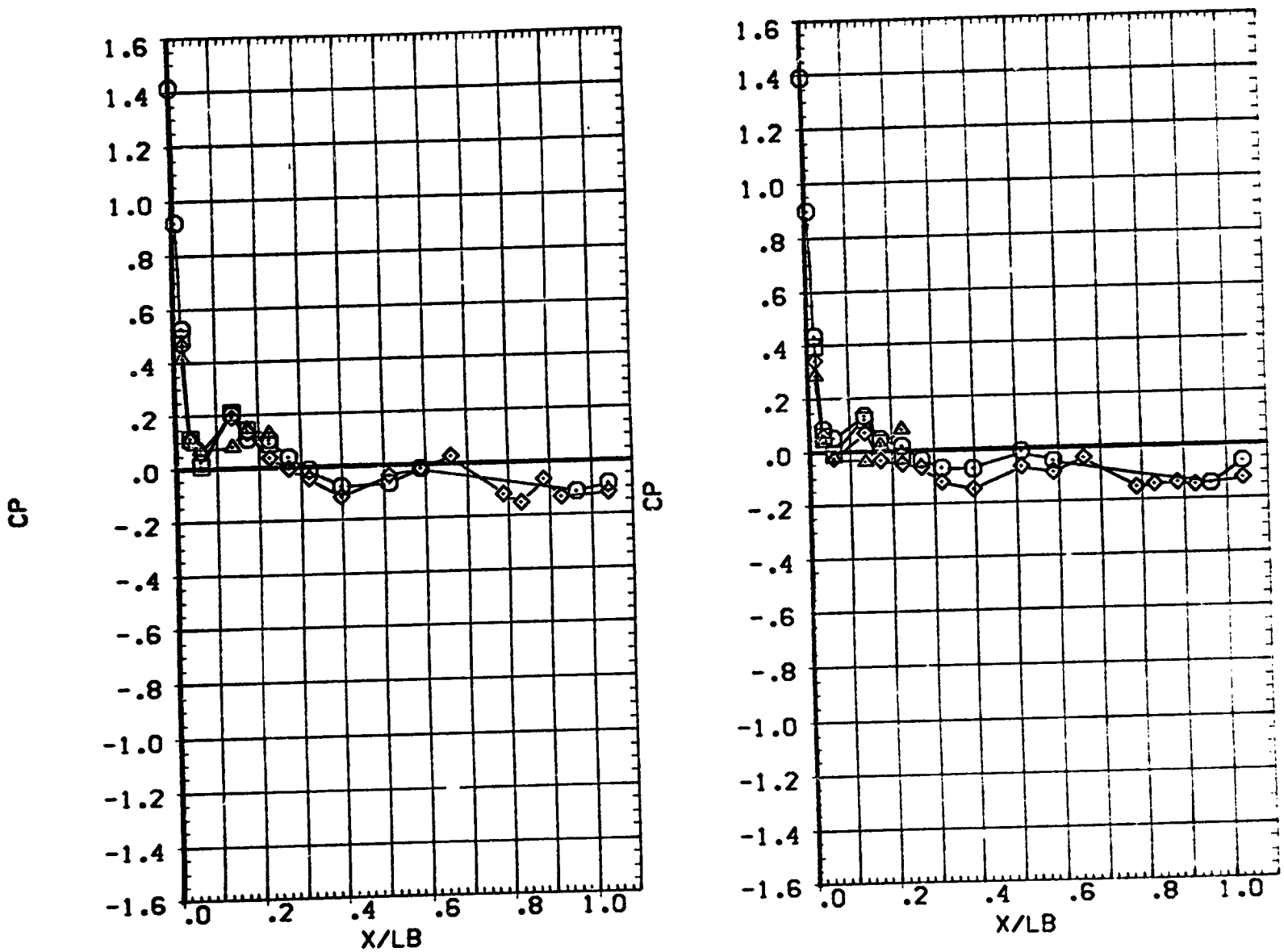
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + 79 ORBITER FUSELAGE (R0001J)

SYMBOL	PHI	BETAT	MACH
○	.000	3.930	2.000
□	20.000	8.020	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



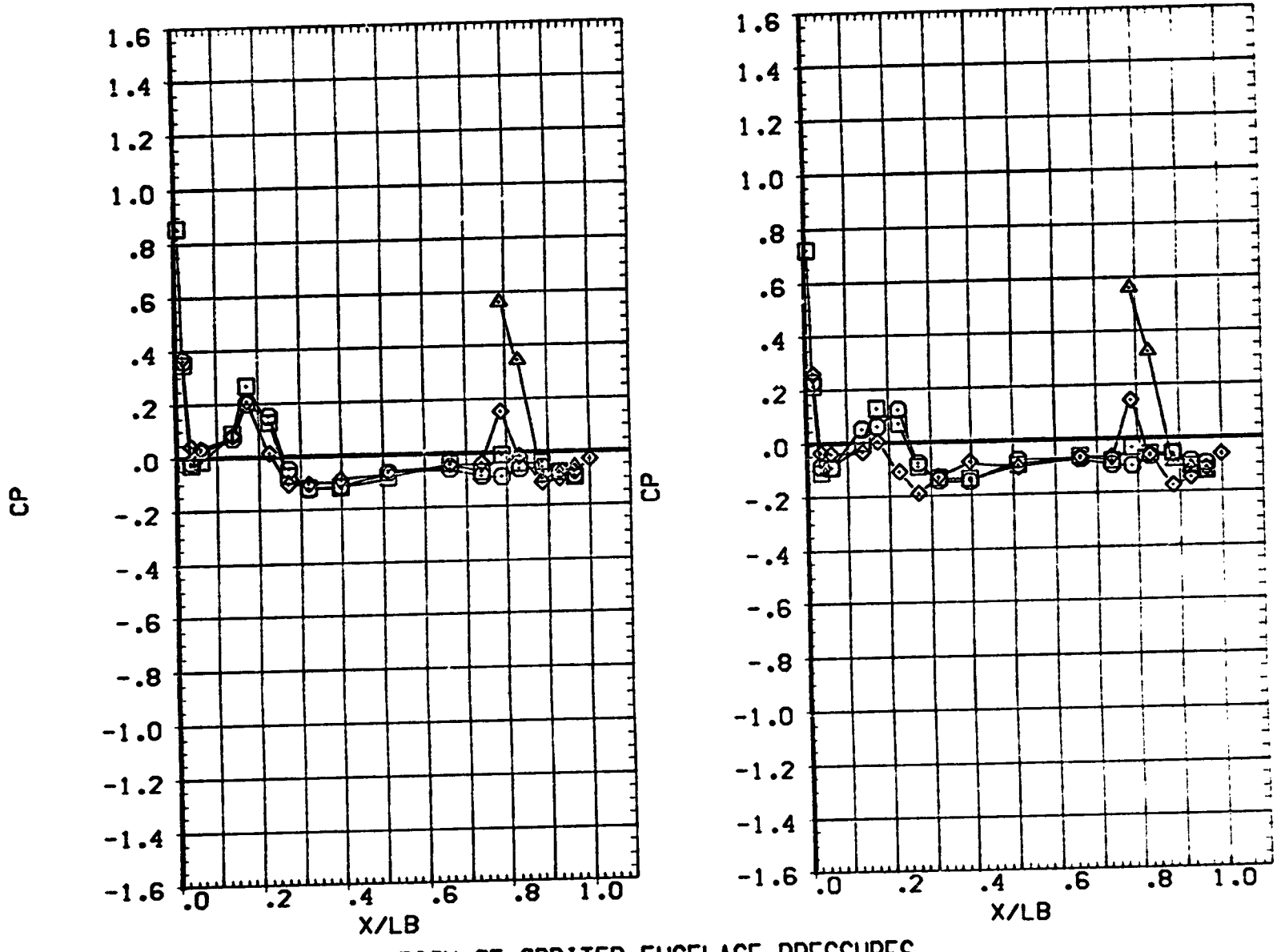
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B13)

SYMBOL	PHI	BETAT	MACH
○	70.000	3.930	2.000
□	90.000	8.020	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



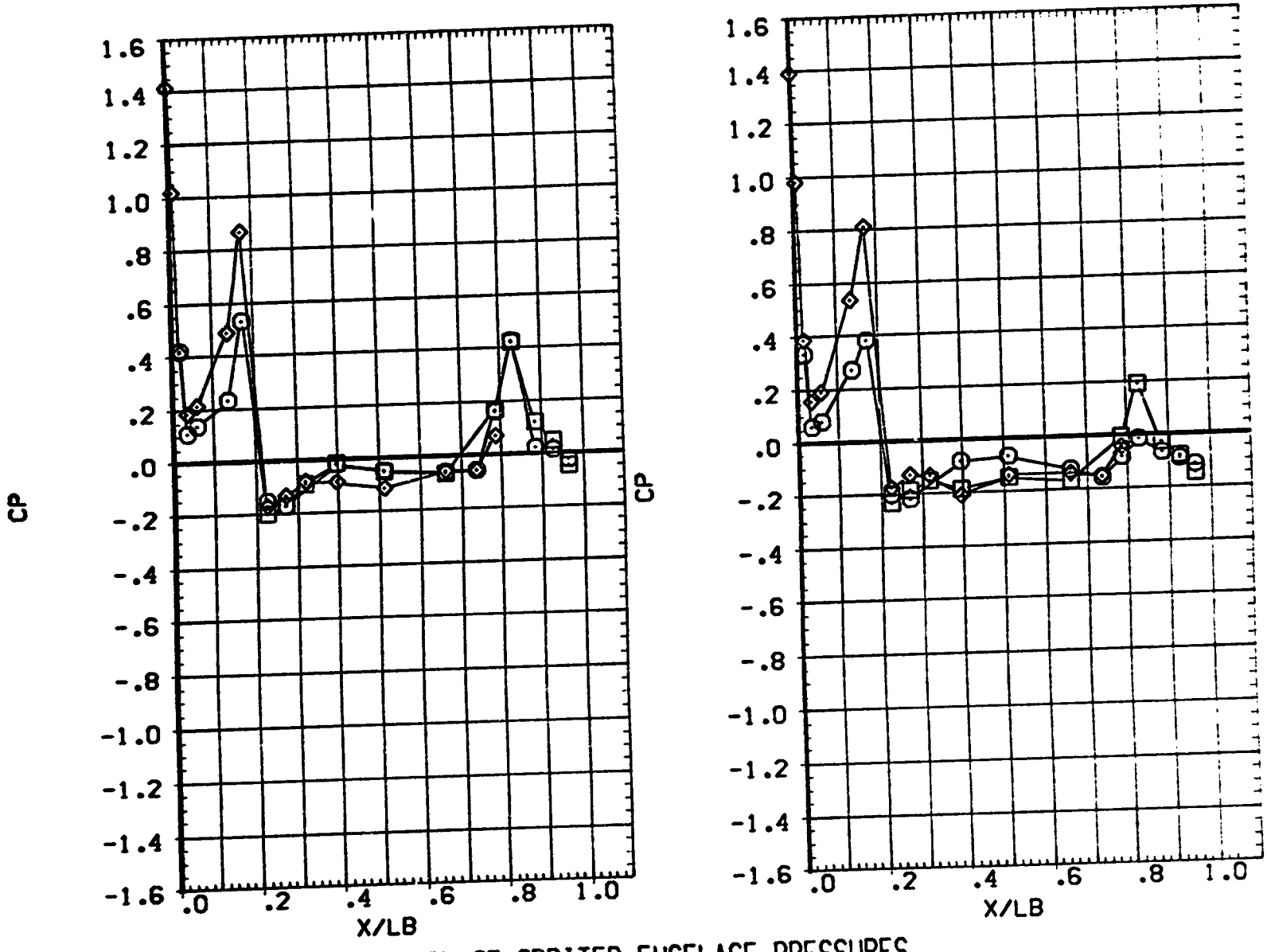
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B13)

SYMBOL	PHI	BETAT	MACH
○	150.000	3.930	2.000
□	165.000	8.020	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



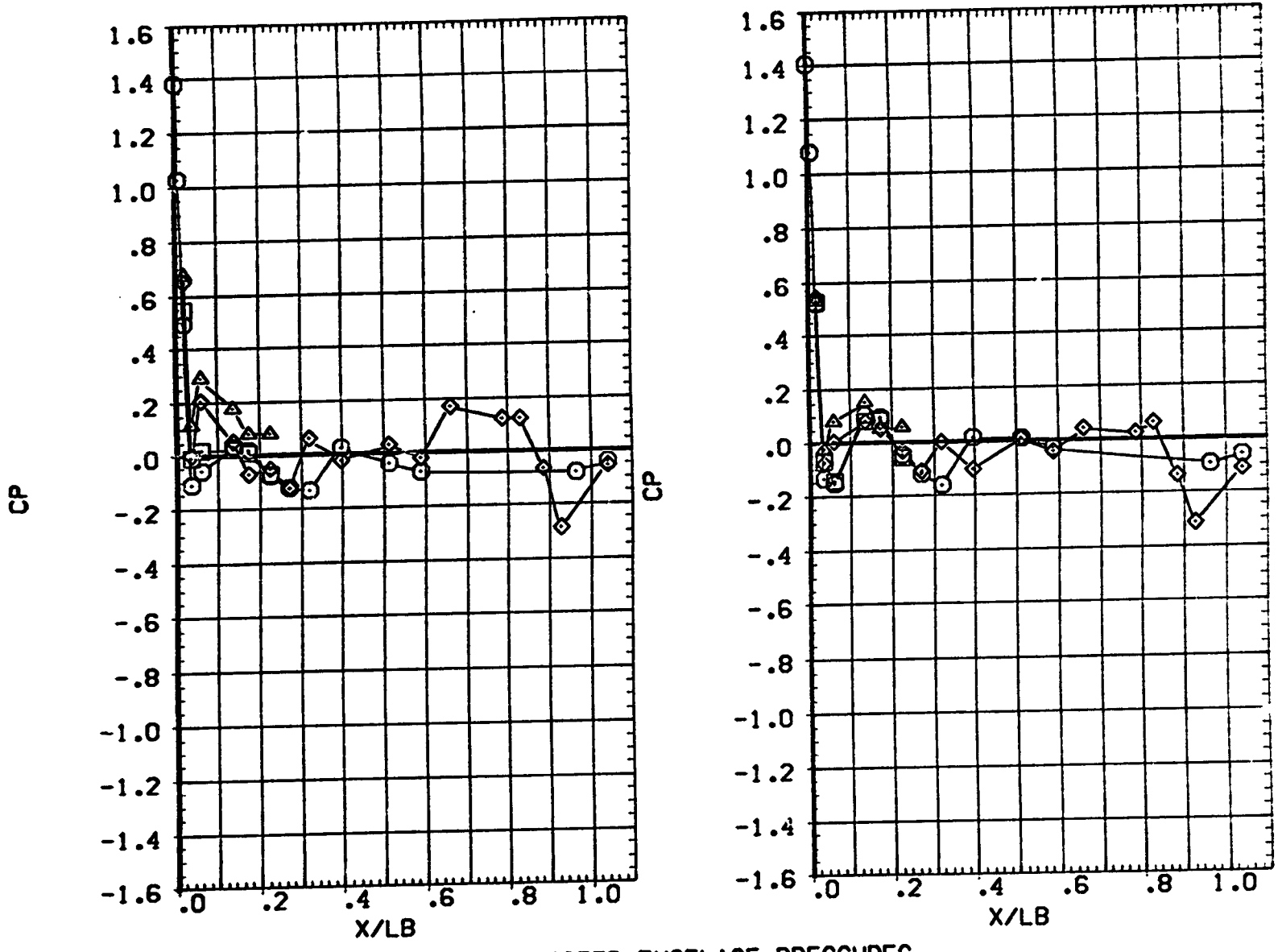
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B19)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.240	1.555
□	20.000	-.140	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		



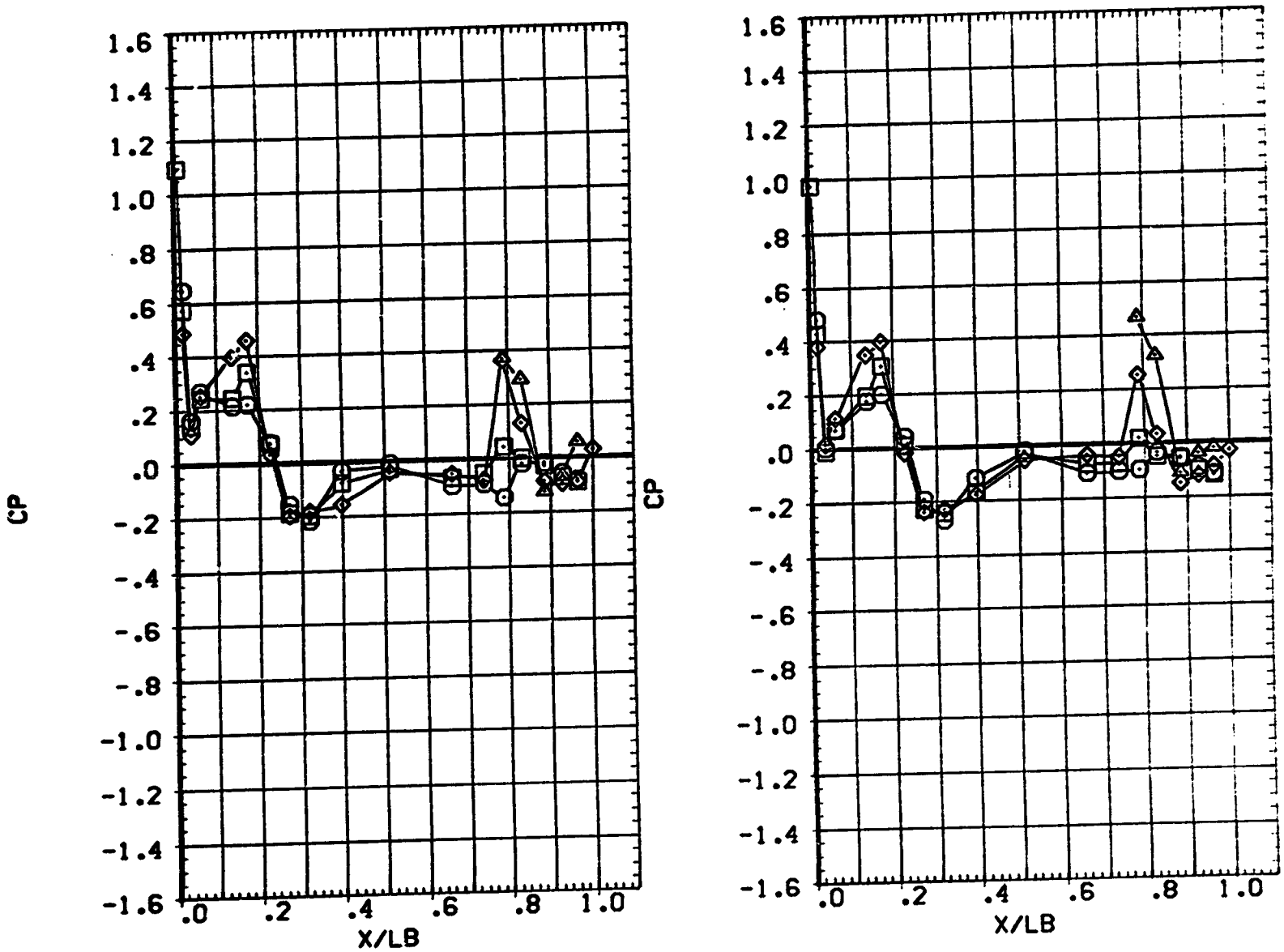
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B19)

SYMBOL	PHI	BETAT	MACH
○	70.000	-4.240	1.555
□	90.000	-.140	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		



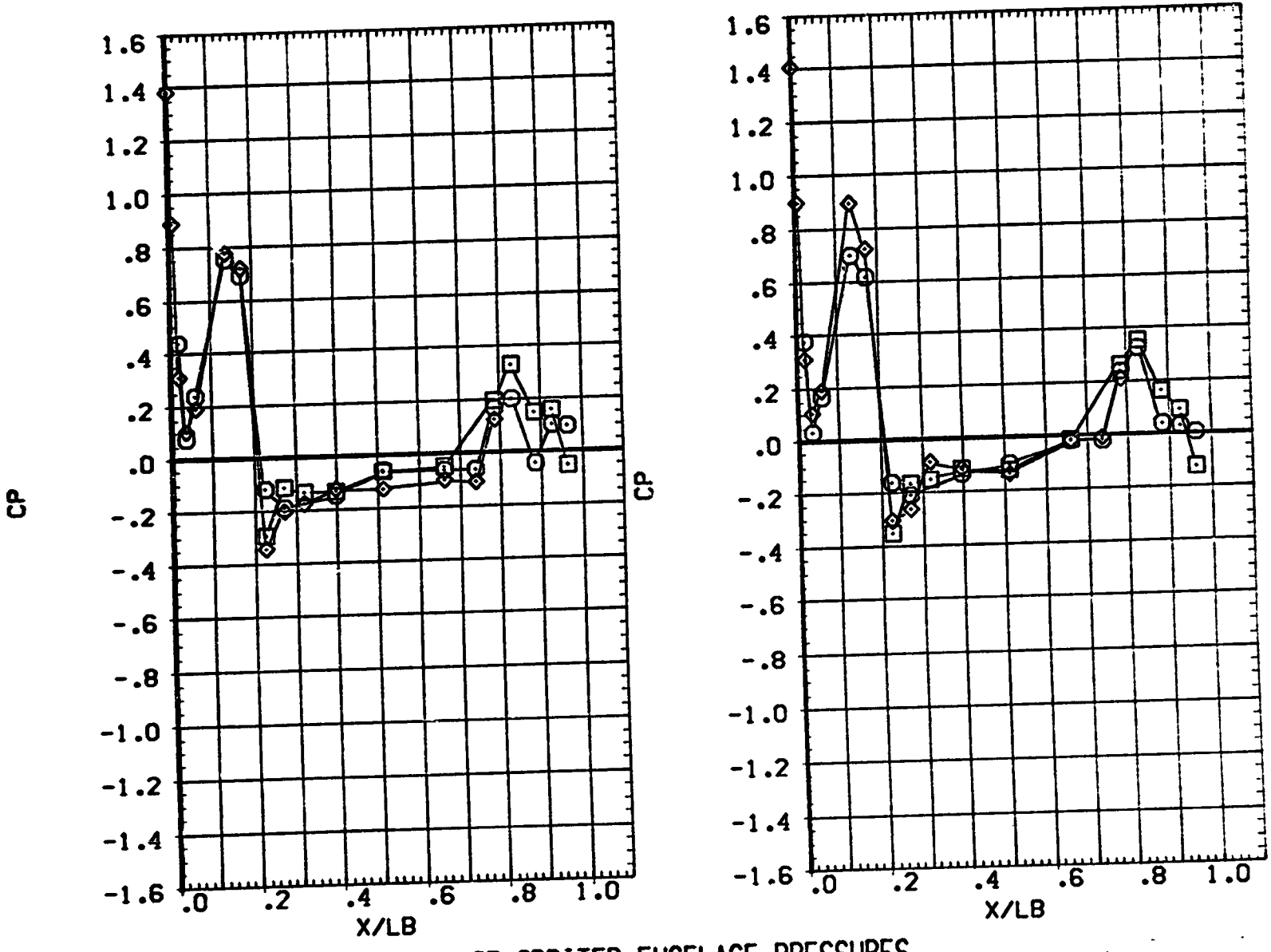
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B19)

SYMBOL	PHI	BETAT	MACH
○	150.000	-4.240	1.555
□	165.000	-.140	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		



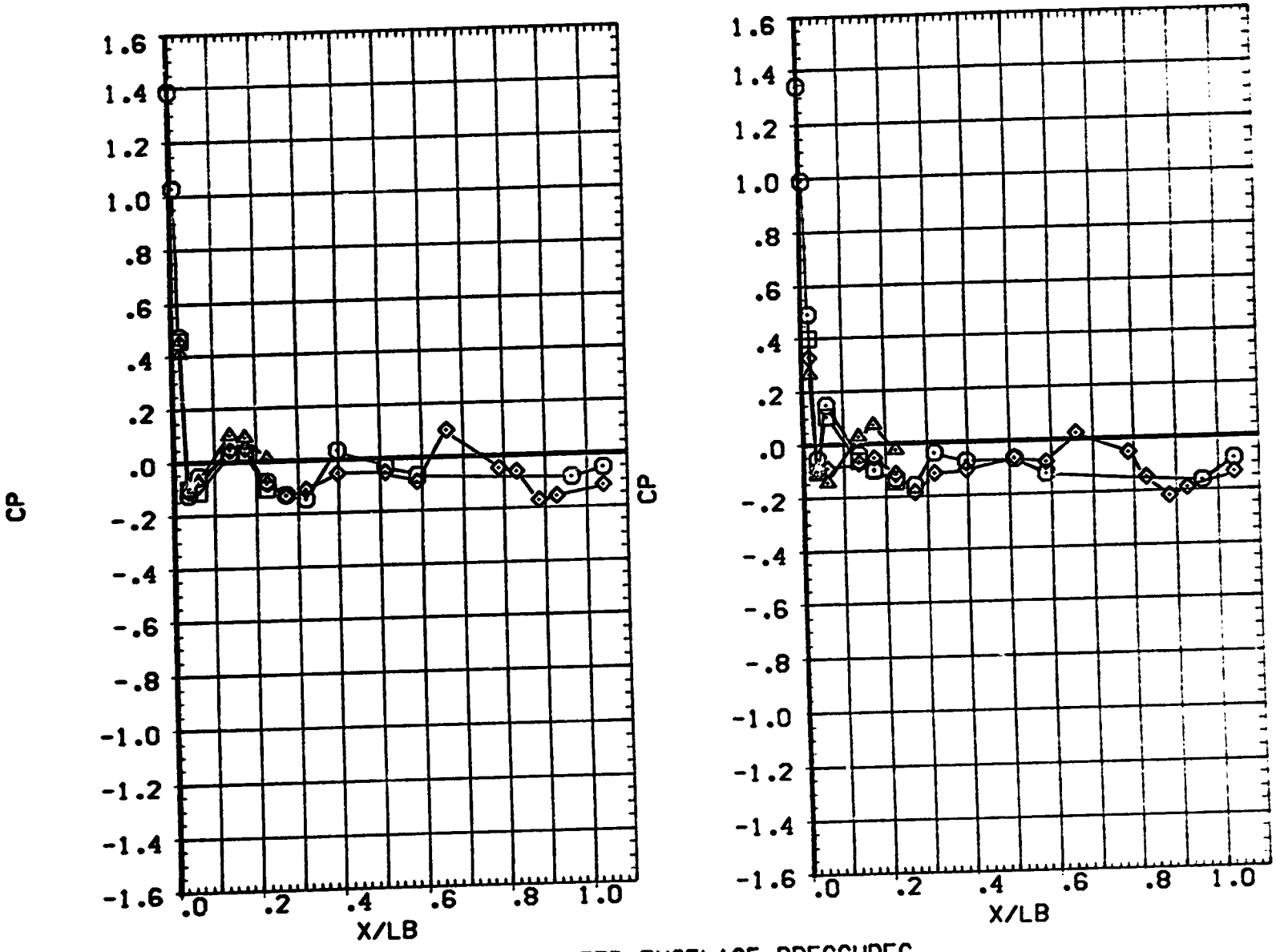
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B19)

SYMBOL	PHI	BETAT	MACH
○	.000	3.950	1.555
□	20.000	8.040	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		



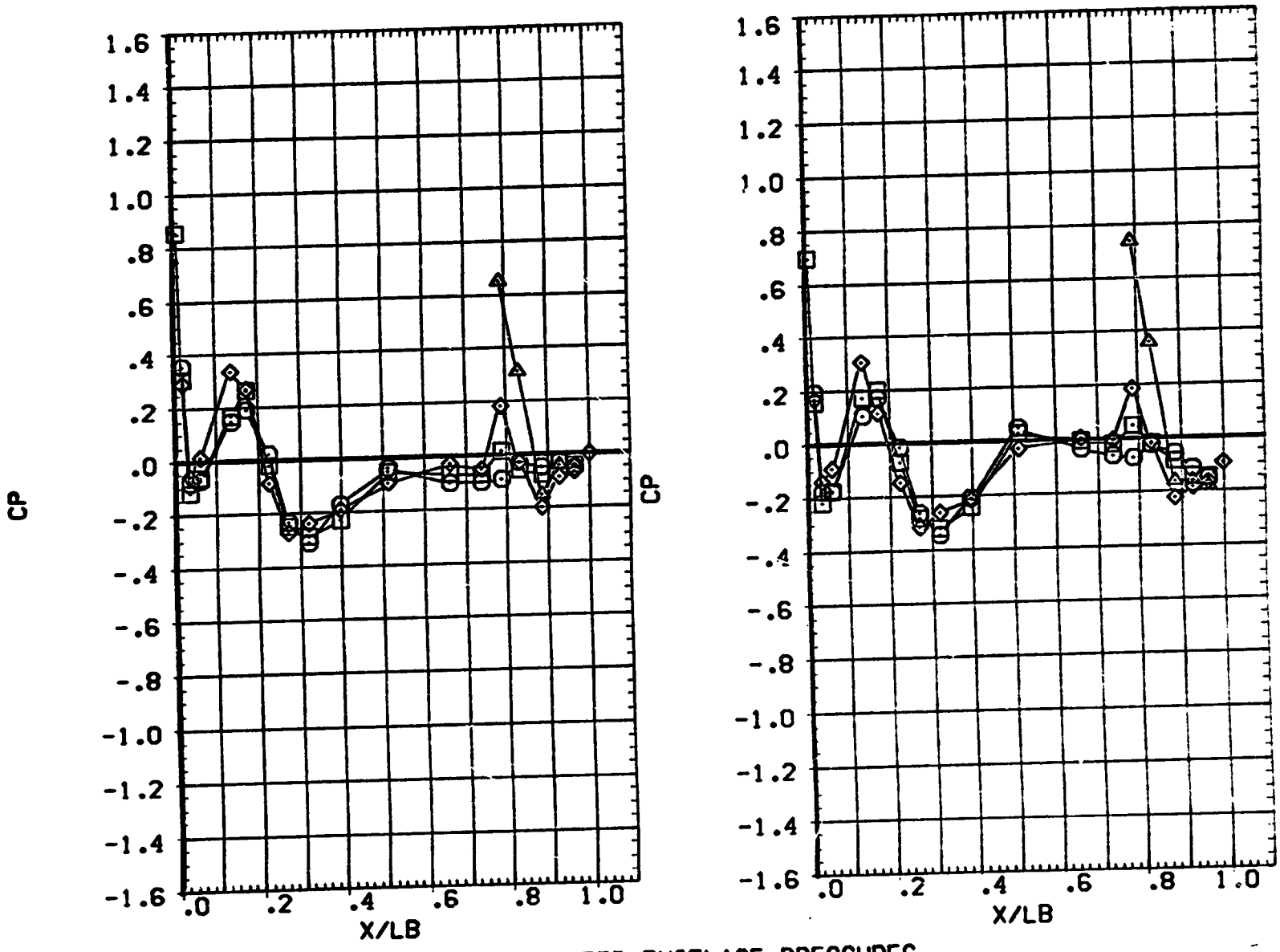
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B19)

SYMBOL	PHI	BETAT	MACH
○	70.000	3.950	1.555
□	90.000	8.040	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	-10.000	ELEVON	.000
ROLLR	.000		



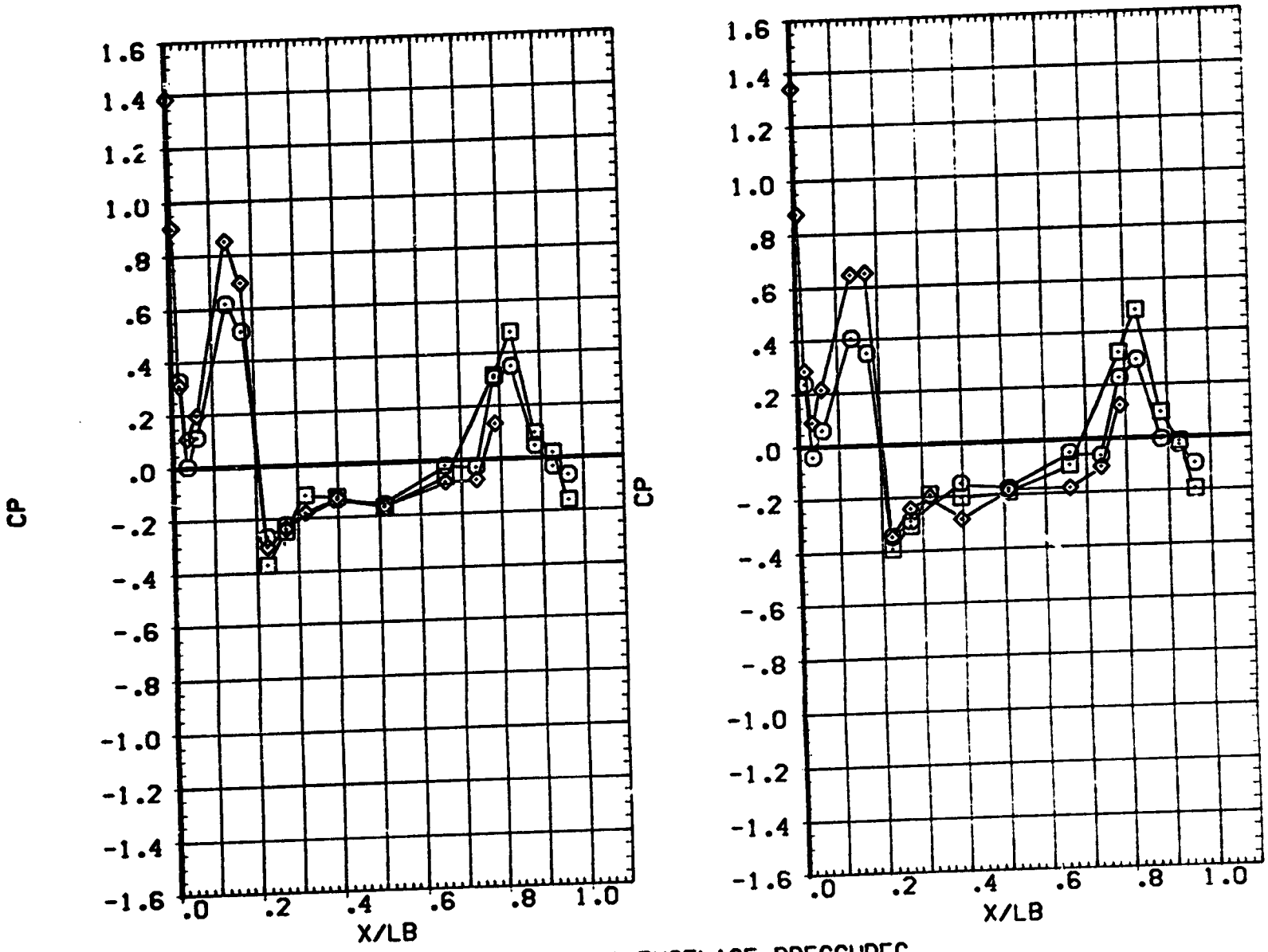
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBOB:9)

SYMBOL	PHI	BETAT	MACH
○	150.000	3.950	1.555
□	165.000	8.040	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	-10.000	ELEVON	.000
RUDDER	.000		



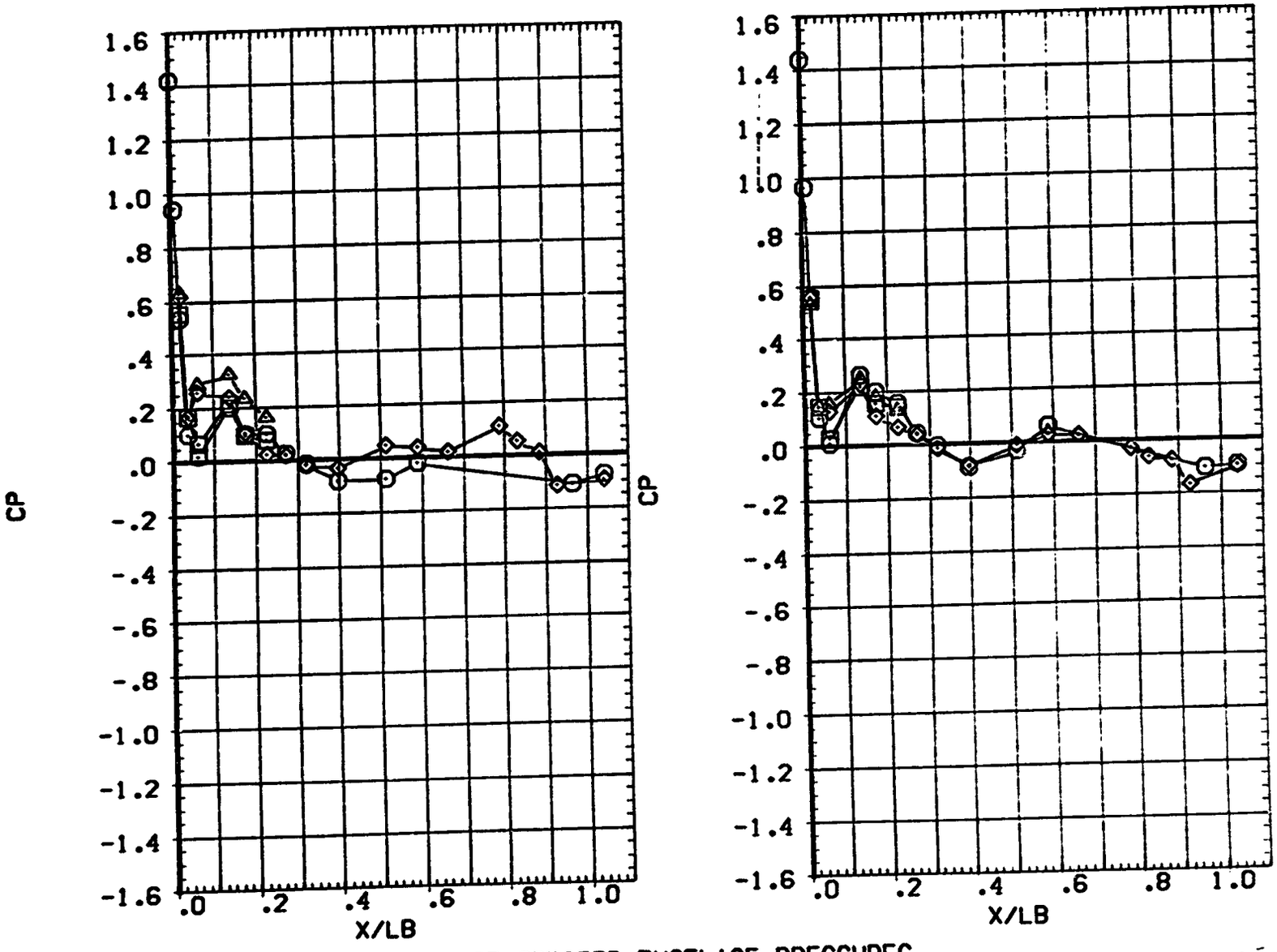
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBCB19)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.220	2.000
□	20.000	-.140	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		



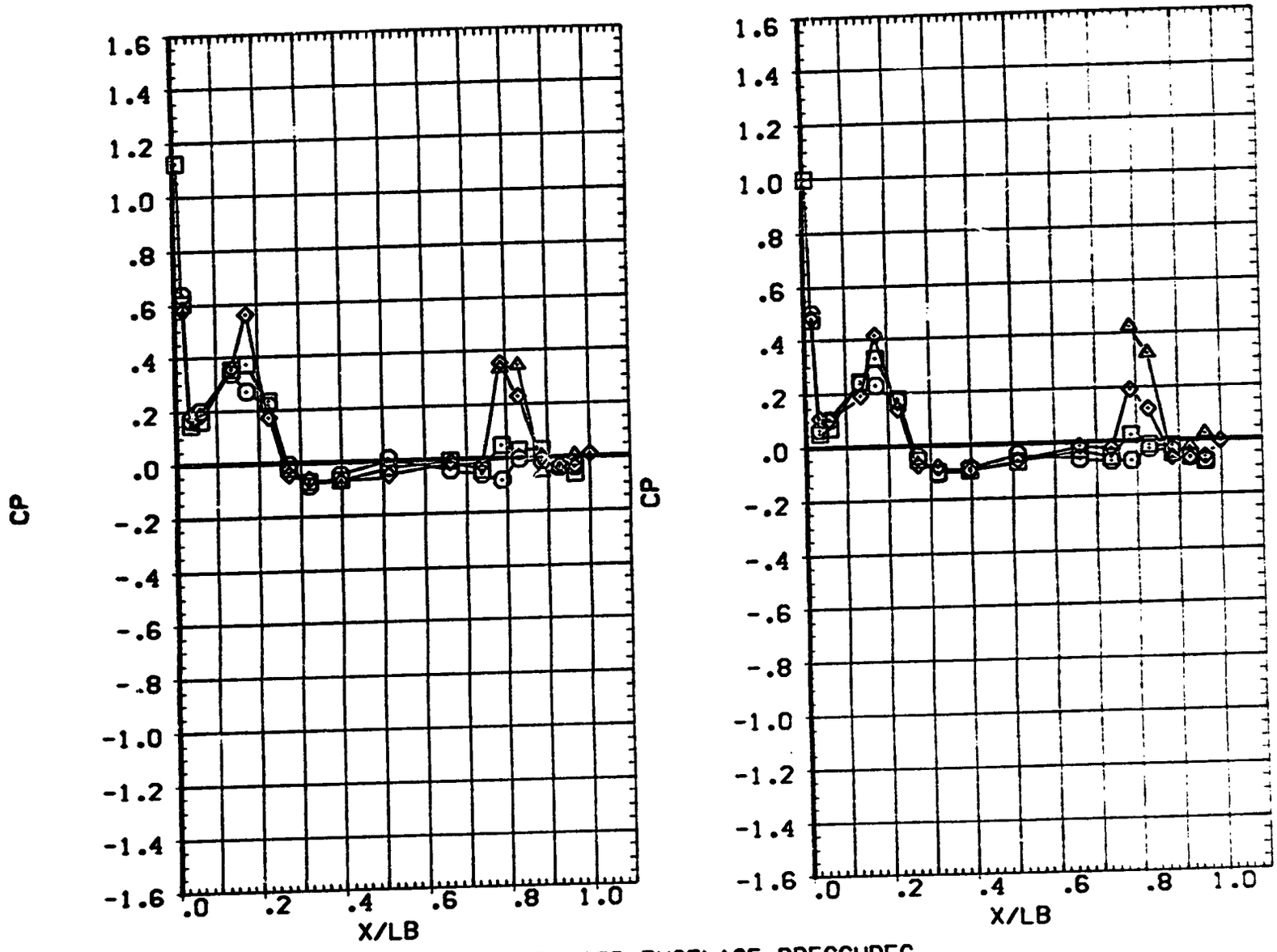
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B19)

SYMBOL	PHI	BETAT	MACH
○	70.000	-4.220	2.000
□	90.000	-.140	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		



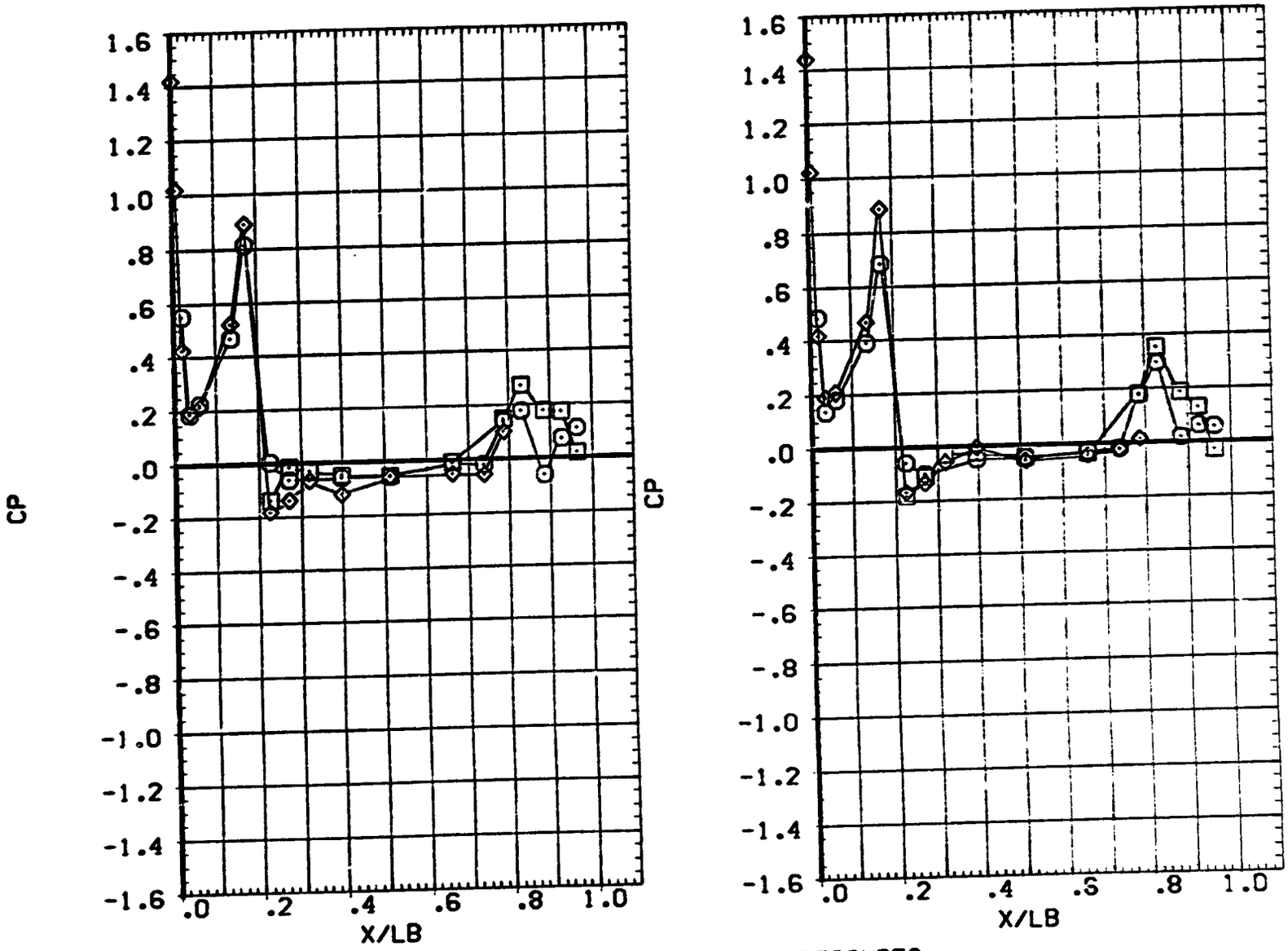
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBOB19)

SYMBOL	PHI	BETAT	MACH
○	150.000	-4.220	2.000
□	165.000	-.140	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		



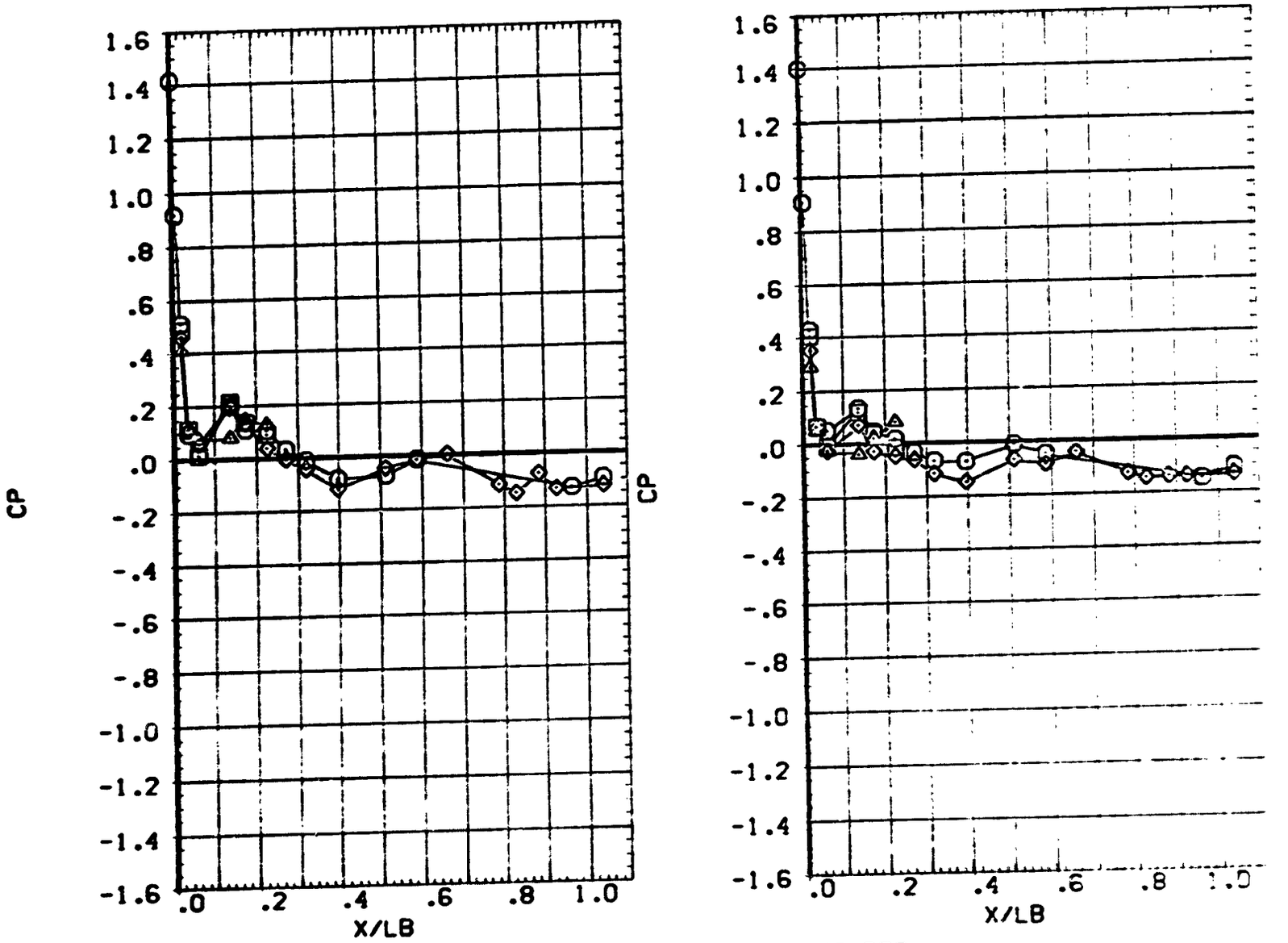
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBCB19)

SYMBOL	PHI	BETAT	MACH
○	.000	3.930	2.000
□	20.000	8.020	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	SRBINC	.000
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

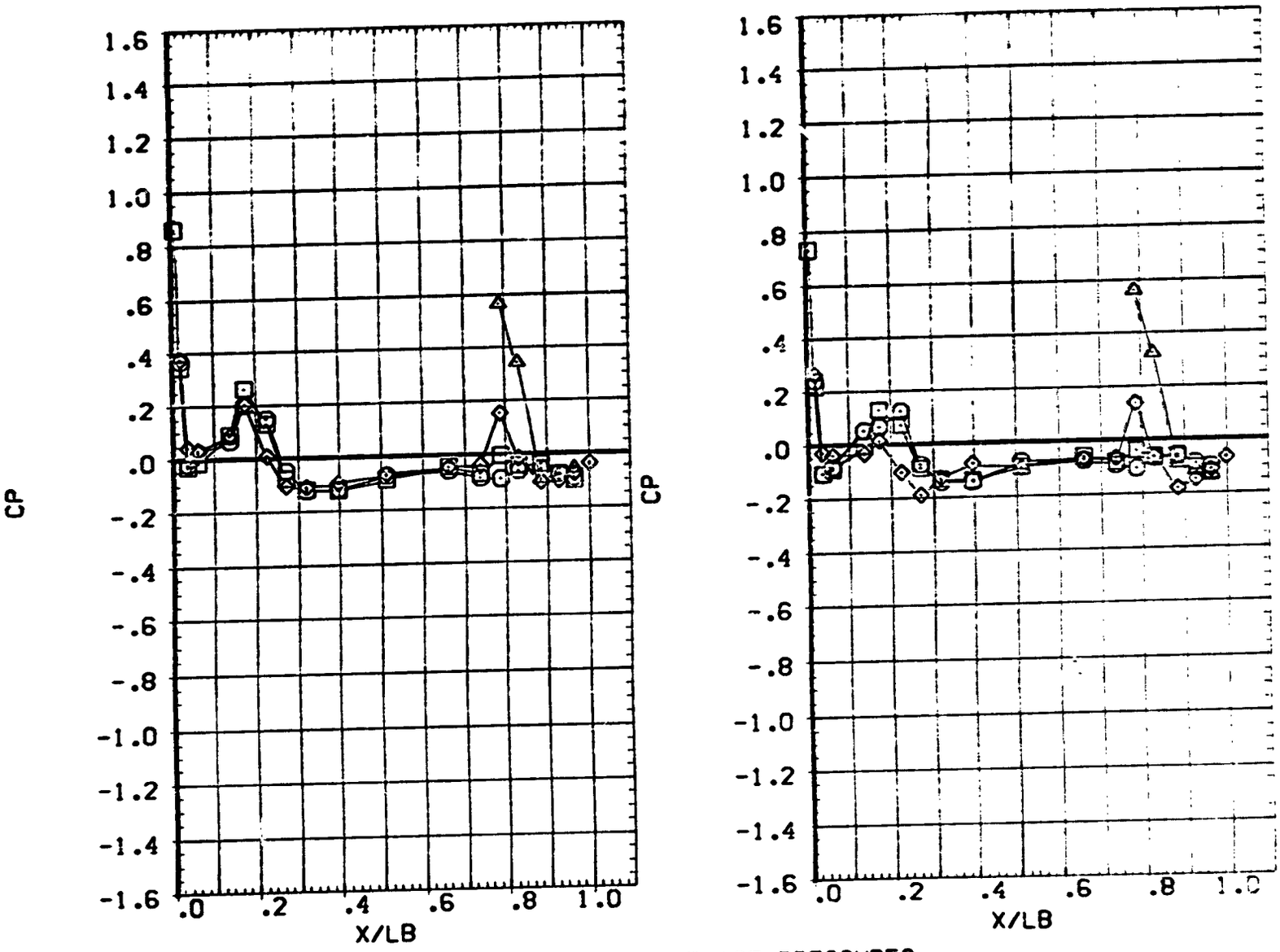
PAGE 84

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBOB19)

SYMBOL	PHI	BETAT	MACH
○	70.000	3.930	2.000
□	90.000	8.020	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	-10.000	ELEVON	.000
RUDDER	.000		



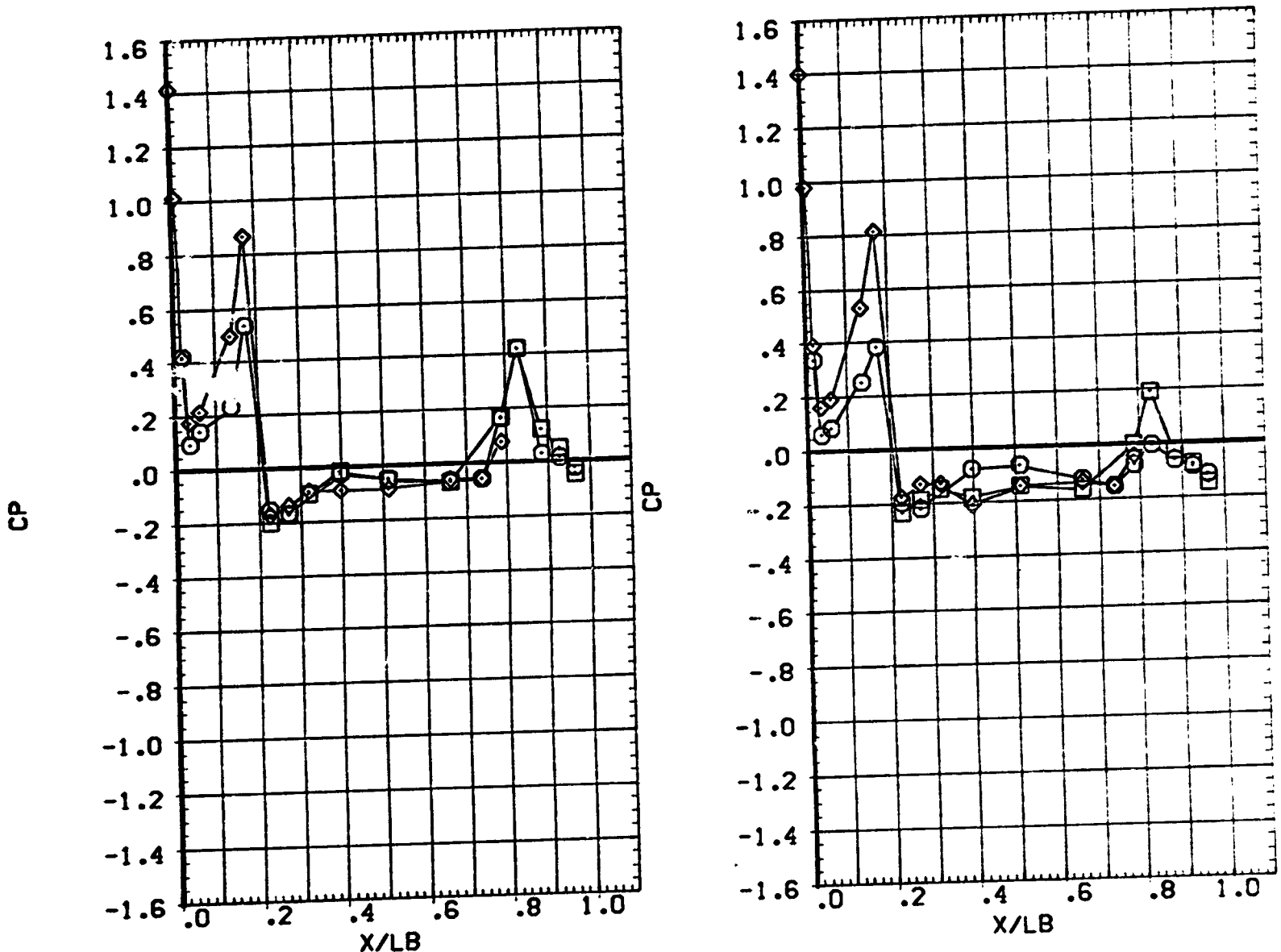
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBUBIY)

SYMBOL	PHI	BETAT	MACH
○	150.000	3.930	2.000
□	165.000	8.020	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		



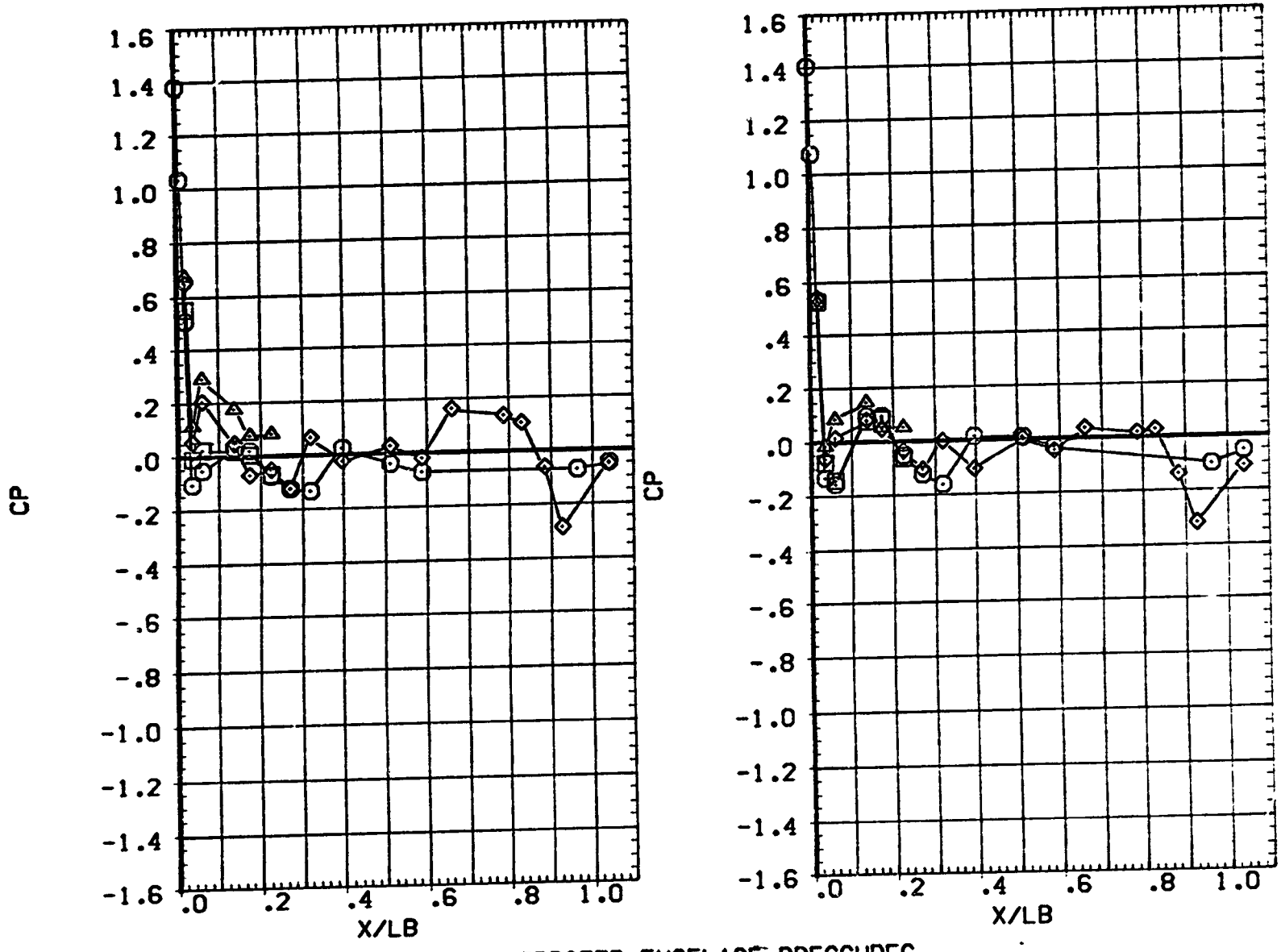
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B25)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.240	1.555
□	20.000	-.130	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		



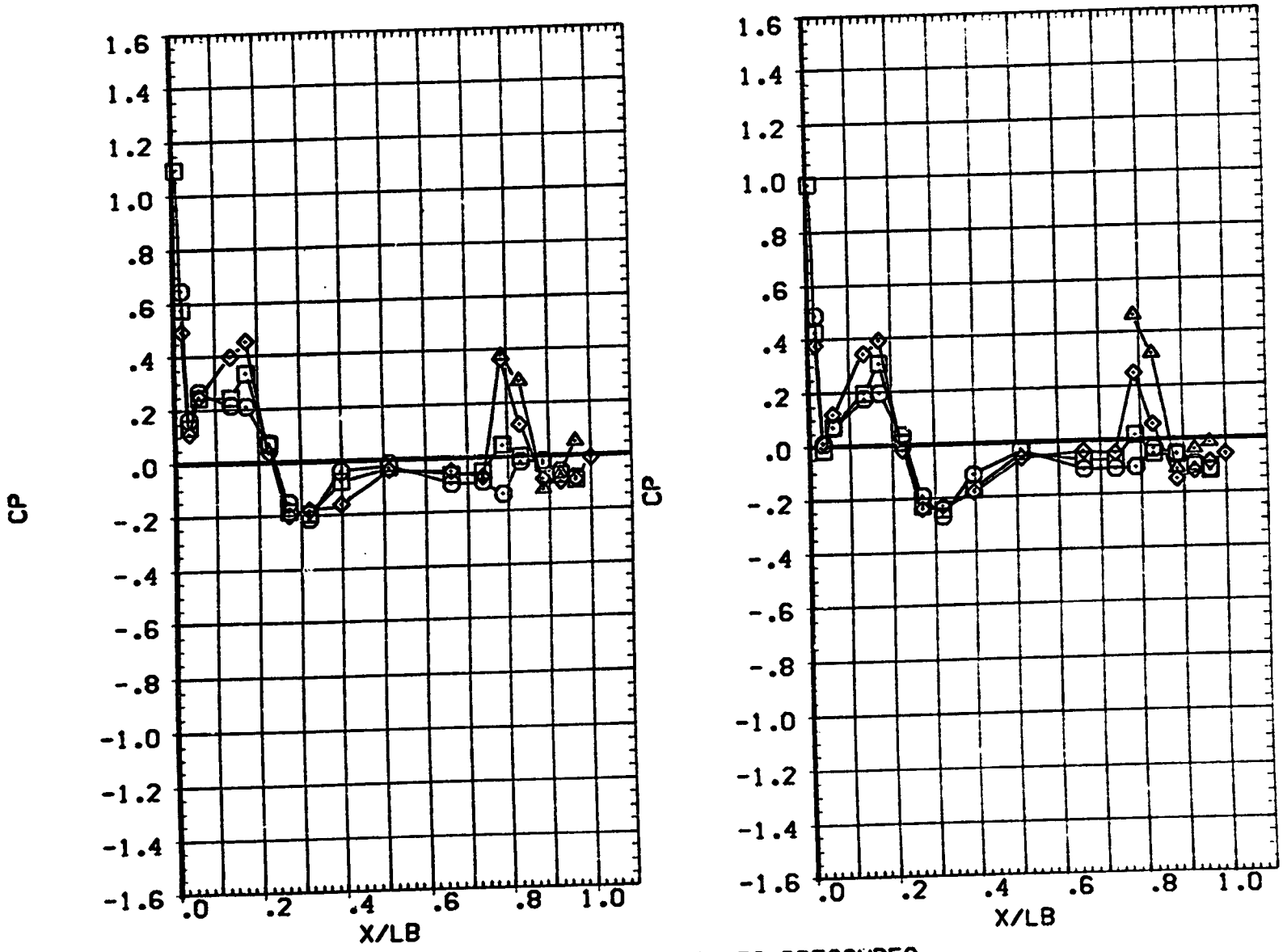
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B25)

SYMBOL	PHI	BETAT	MACH
○	70.000	-4.240	1.555
□	90.000	-.130	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		



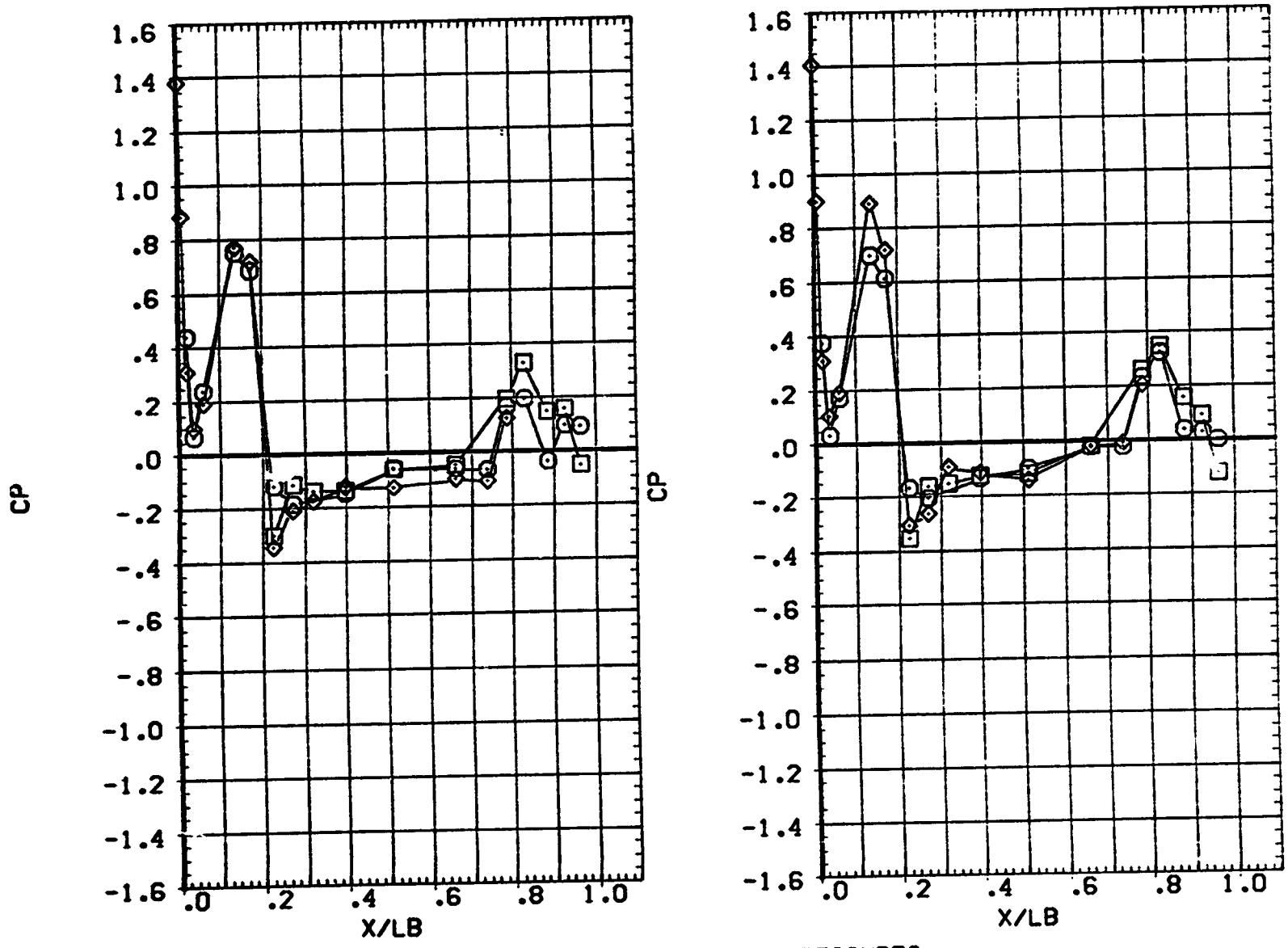
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0825)

SYMBOL	PHI	BETAT	MACH
○	150.000	-4.240	1.555
□	165.000	-.130	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		



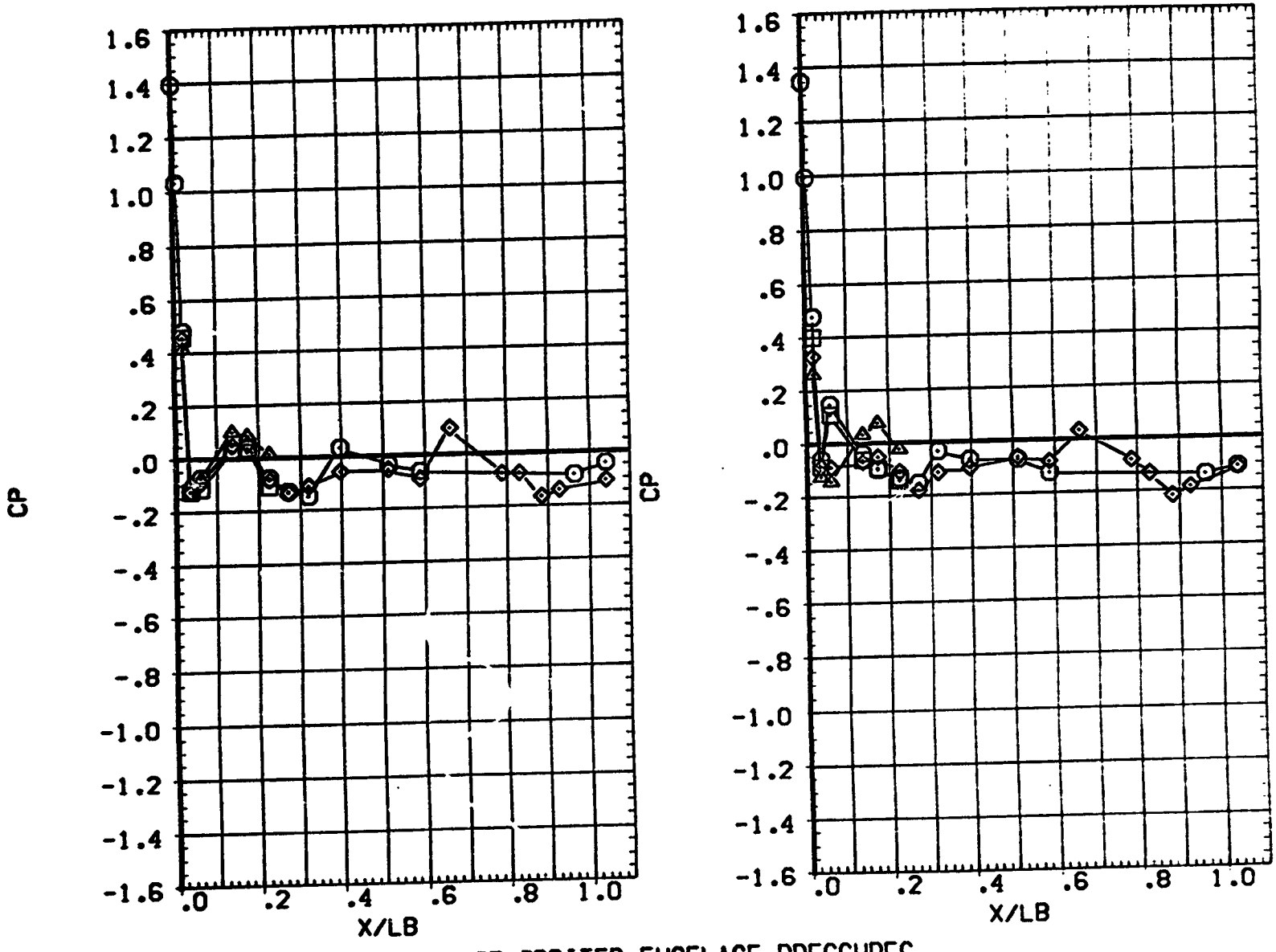
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBCB25)

SYMBOL	PHI	BETAT	MACH
○	.000	3.950	1.555
□	20.000	8.040	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		



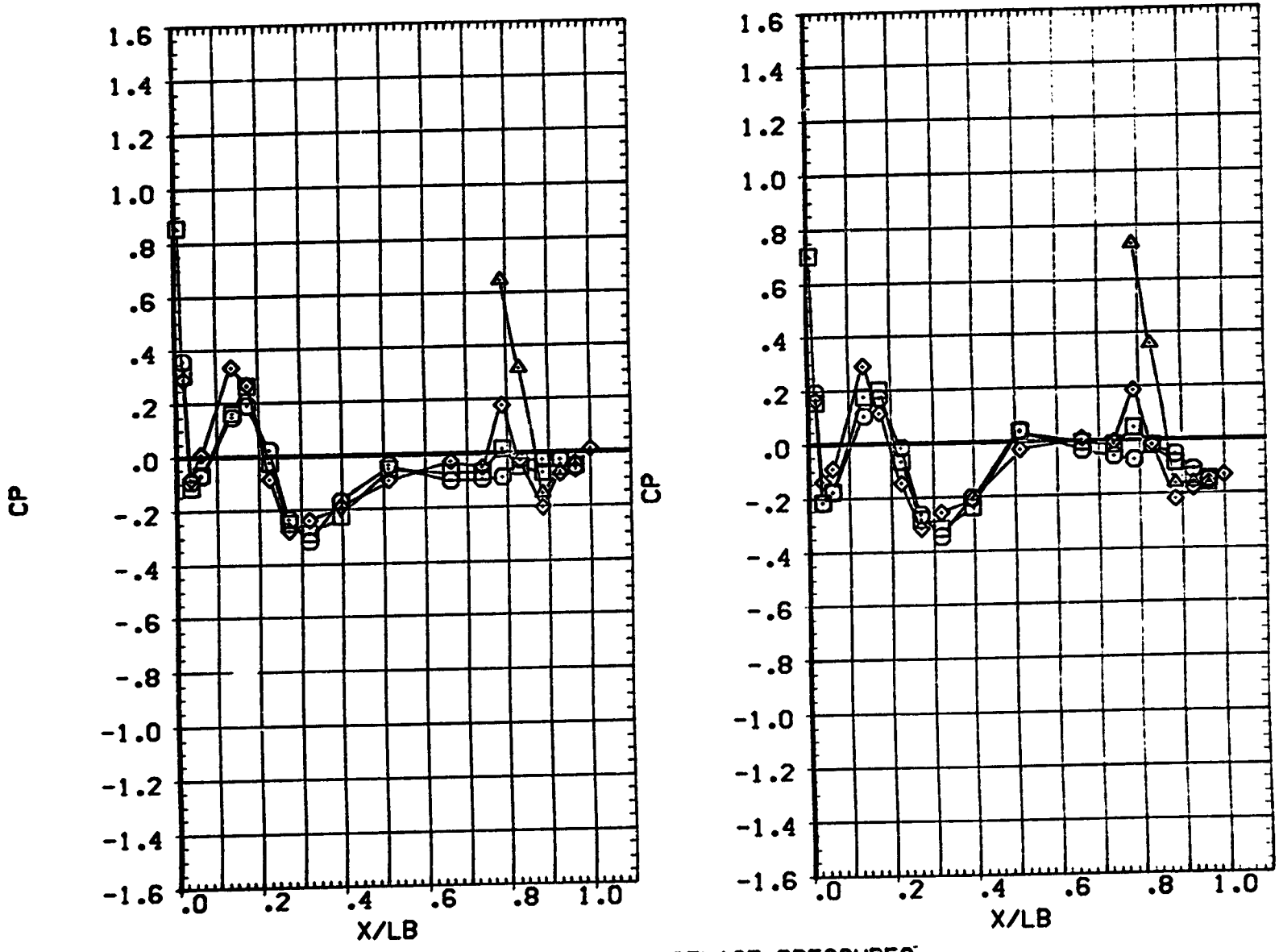
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B25)

SYMBOL	PHI	BETAT	MACH
○	70.000	3.950	1.555
□	90.000	8.040	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		



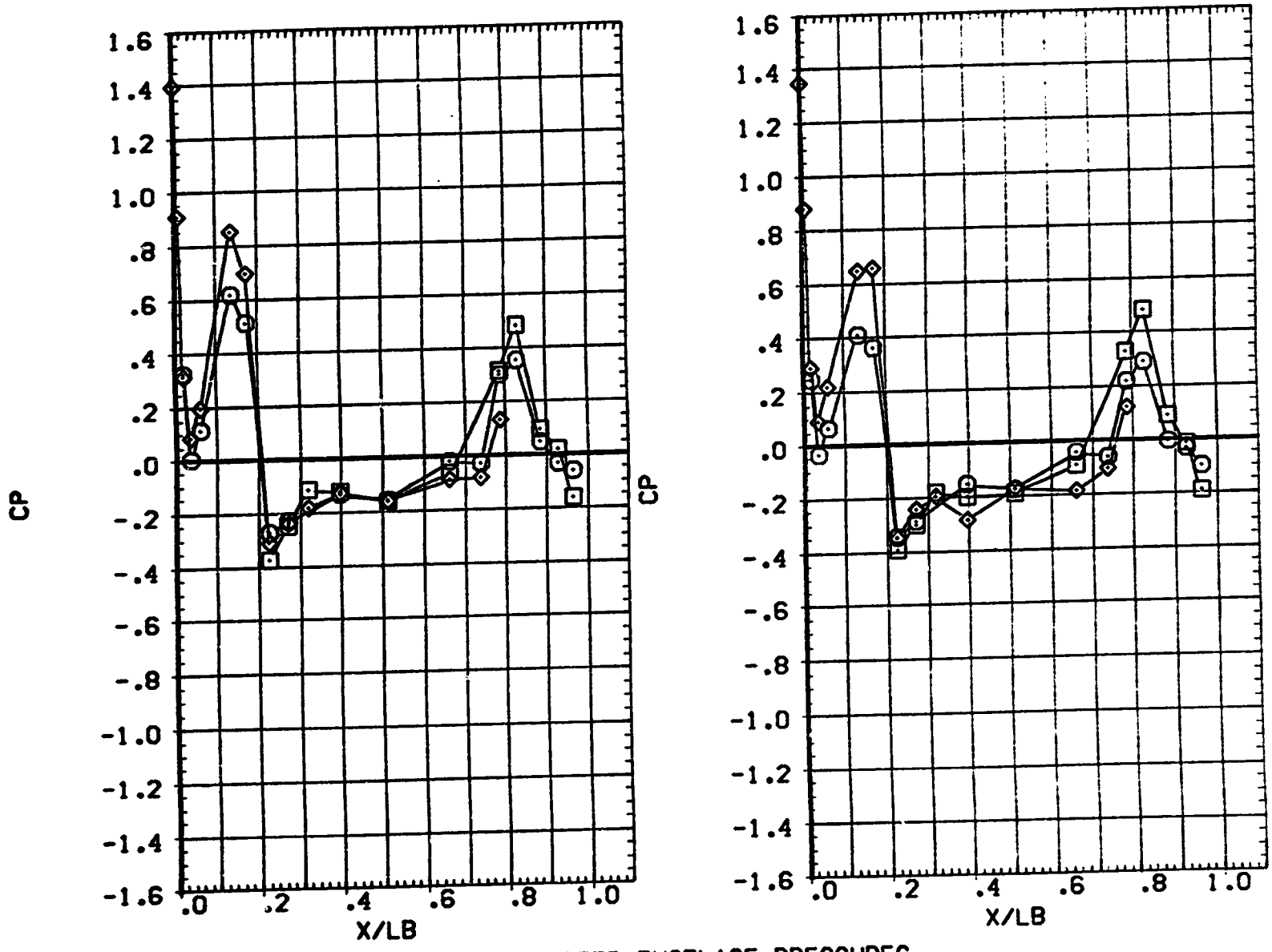
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0825)

SYMBOL	PHI	BETAT	MACH
○	150.000	3.950	1.555
□	165.000	8.040	
◇	180.000		

PARAMETRIC VALUES

ALPHA*	.000	ORBINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		



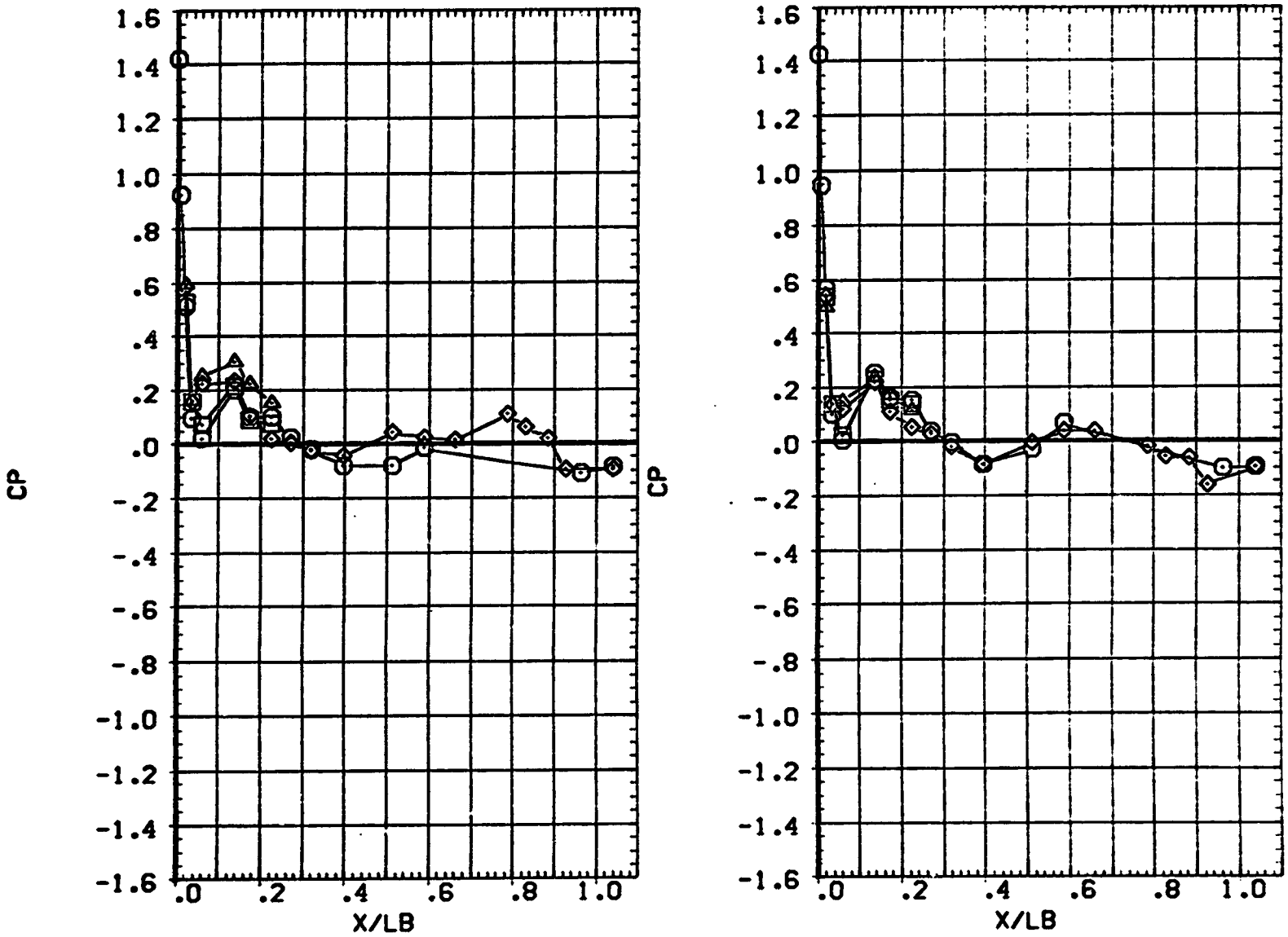
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBOB25)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.210	2.000
□	20.000	-.140	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		



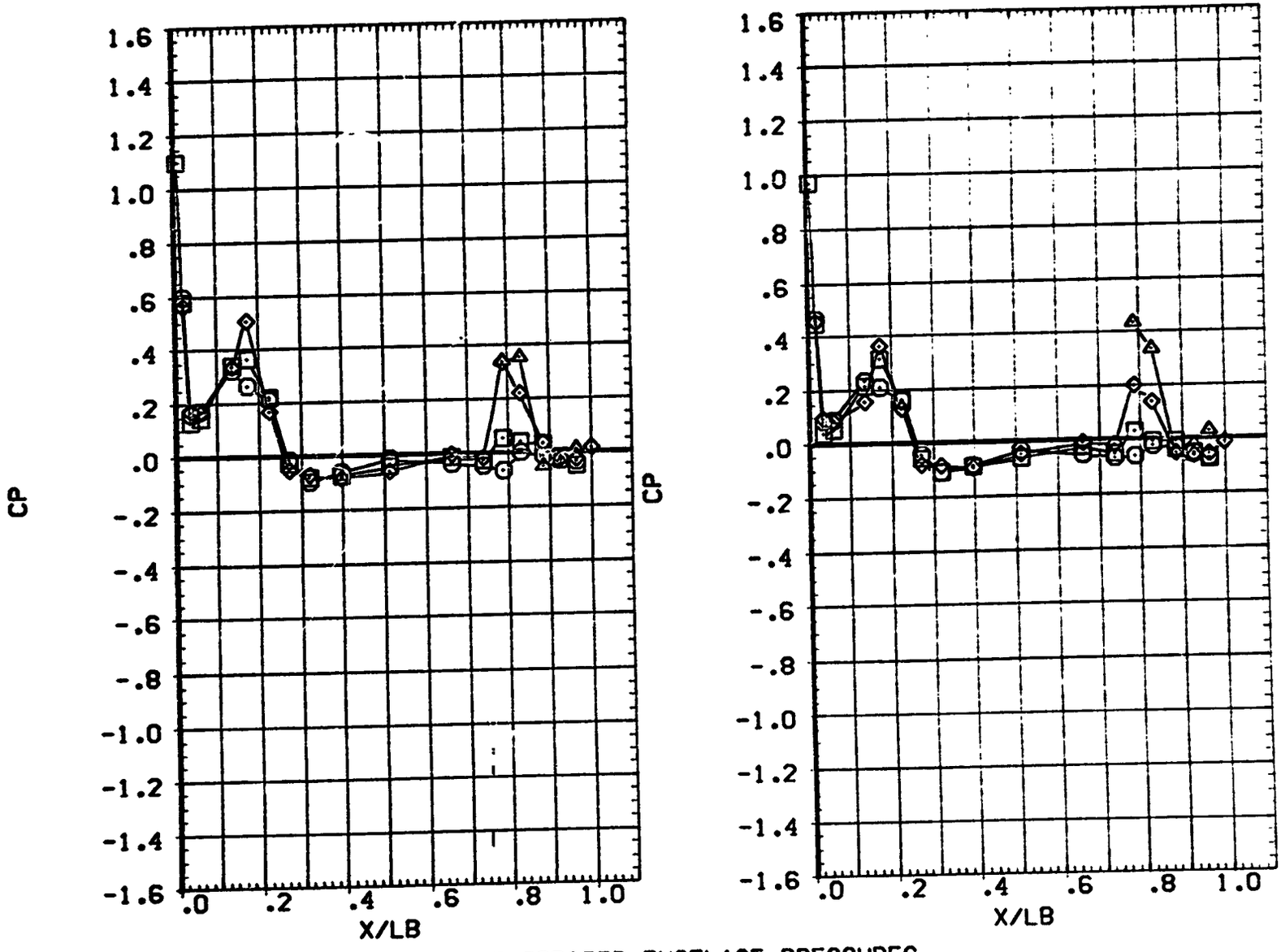
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (R3C325)

SYMBOL	PHI	BETAT	MACH
○	70.000	-4.210	2.000
□	95.000	-.140	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	15.000	ELEVON	.000
RUDF_R	.000		



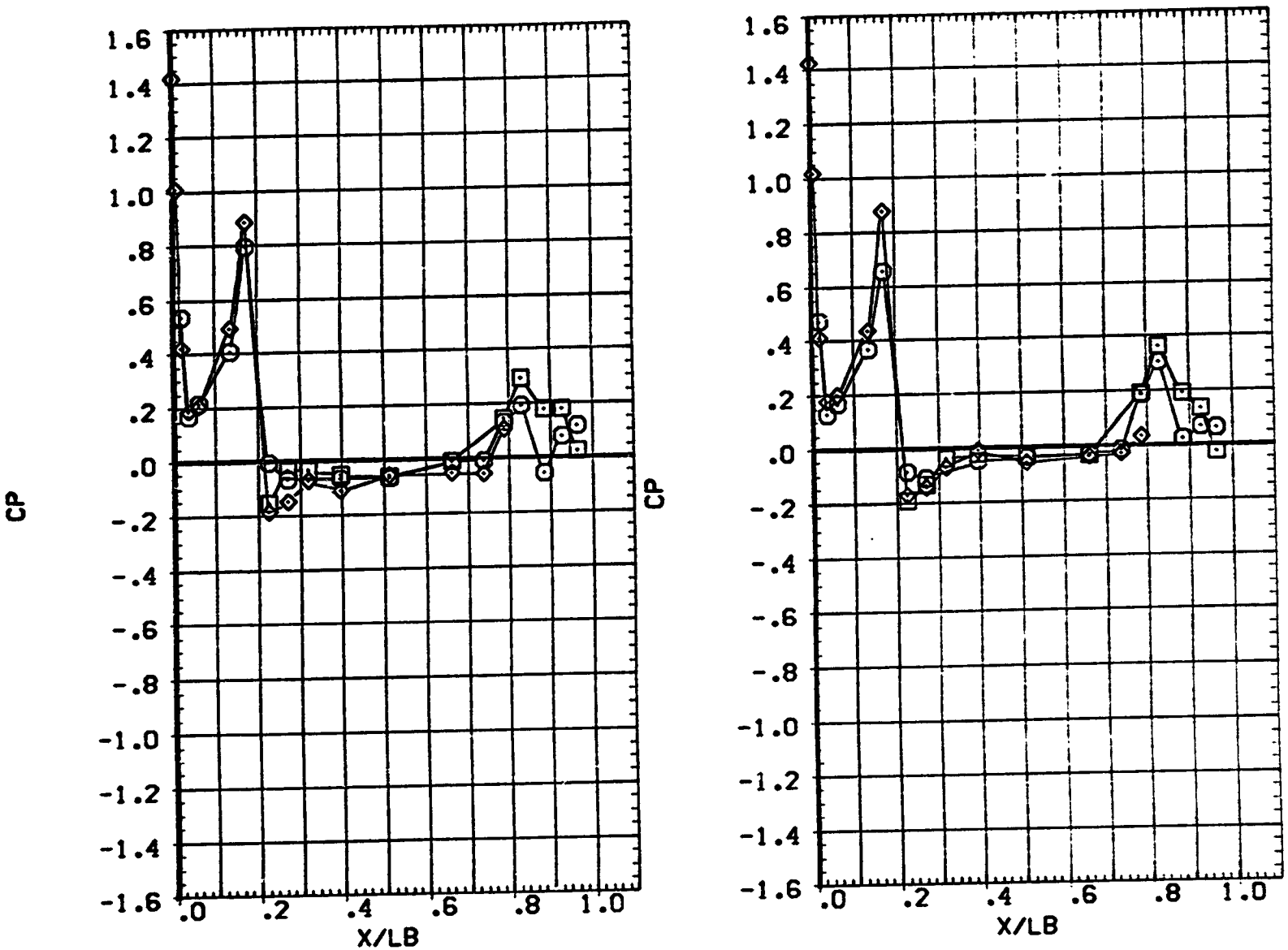
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBOB25)

SYMBOL	PHI	BETAT	MACH
○	150.000	-4.210	2.000
□	165.000	-.140	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		



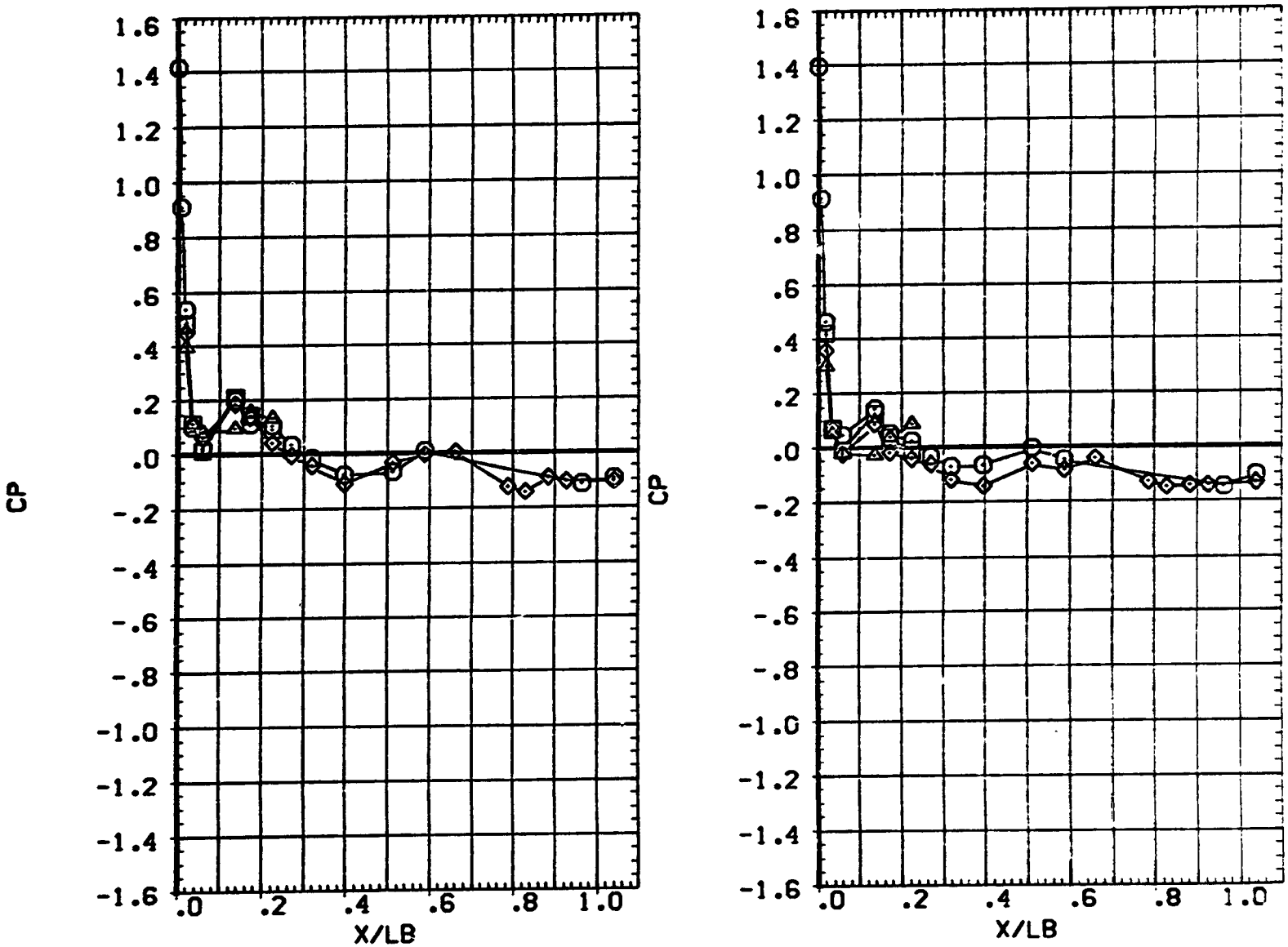
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B25)

SYMBOL	PHI	BETAT	MACH
○	.000	3.950	2.000
□	20.000	8.020	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		



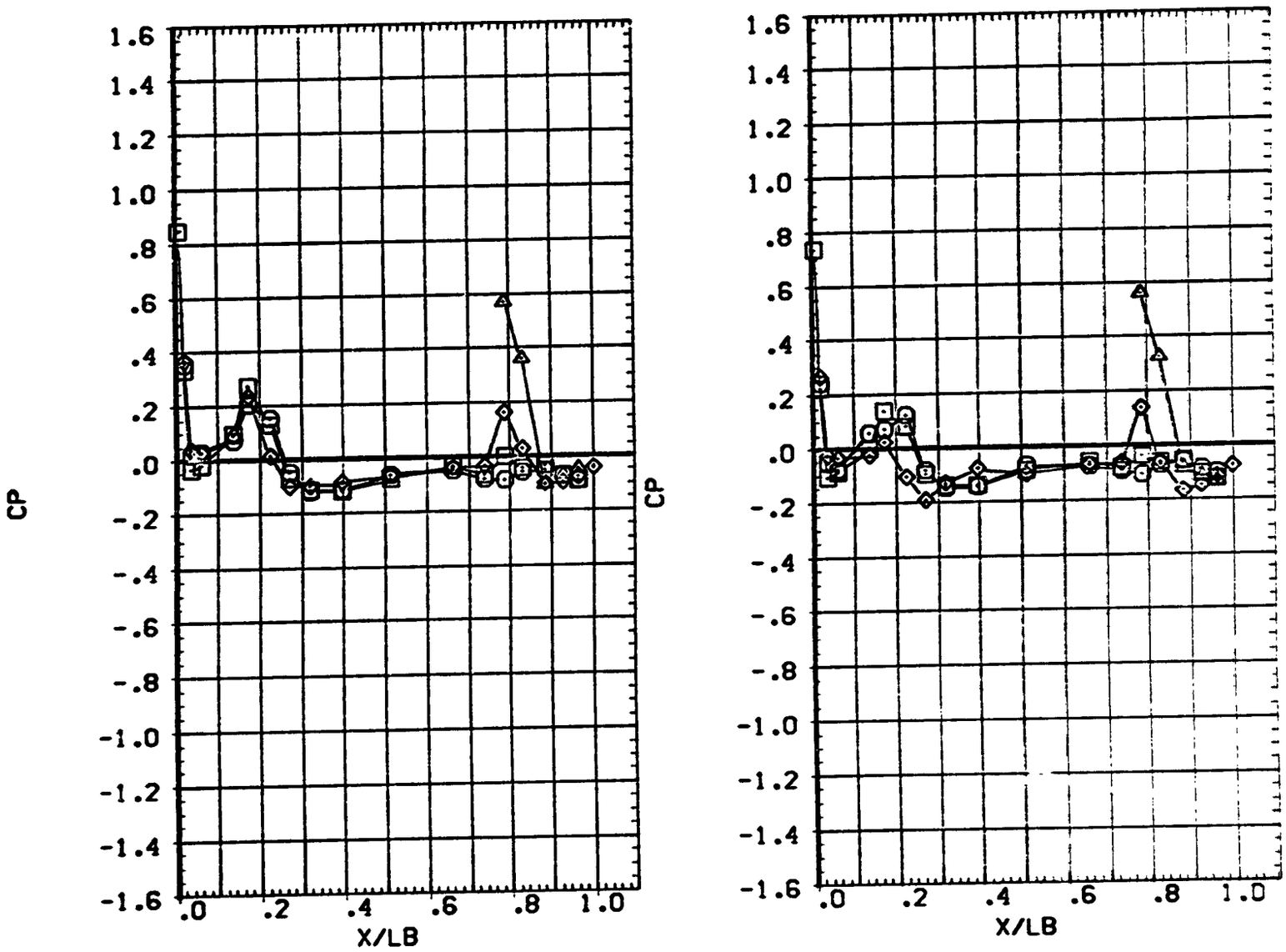
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B25)

SYMBOL	PHI	BETAT	MACH
○	70.000	3.950	2.000
□	90.000	8.020	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.0000
RUDDER	15.000	ELEVON	.0000
RUDFLR	.000		



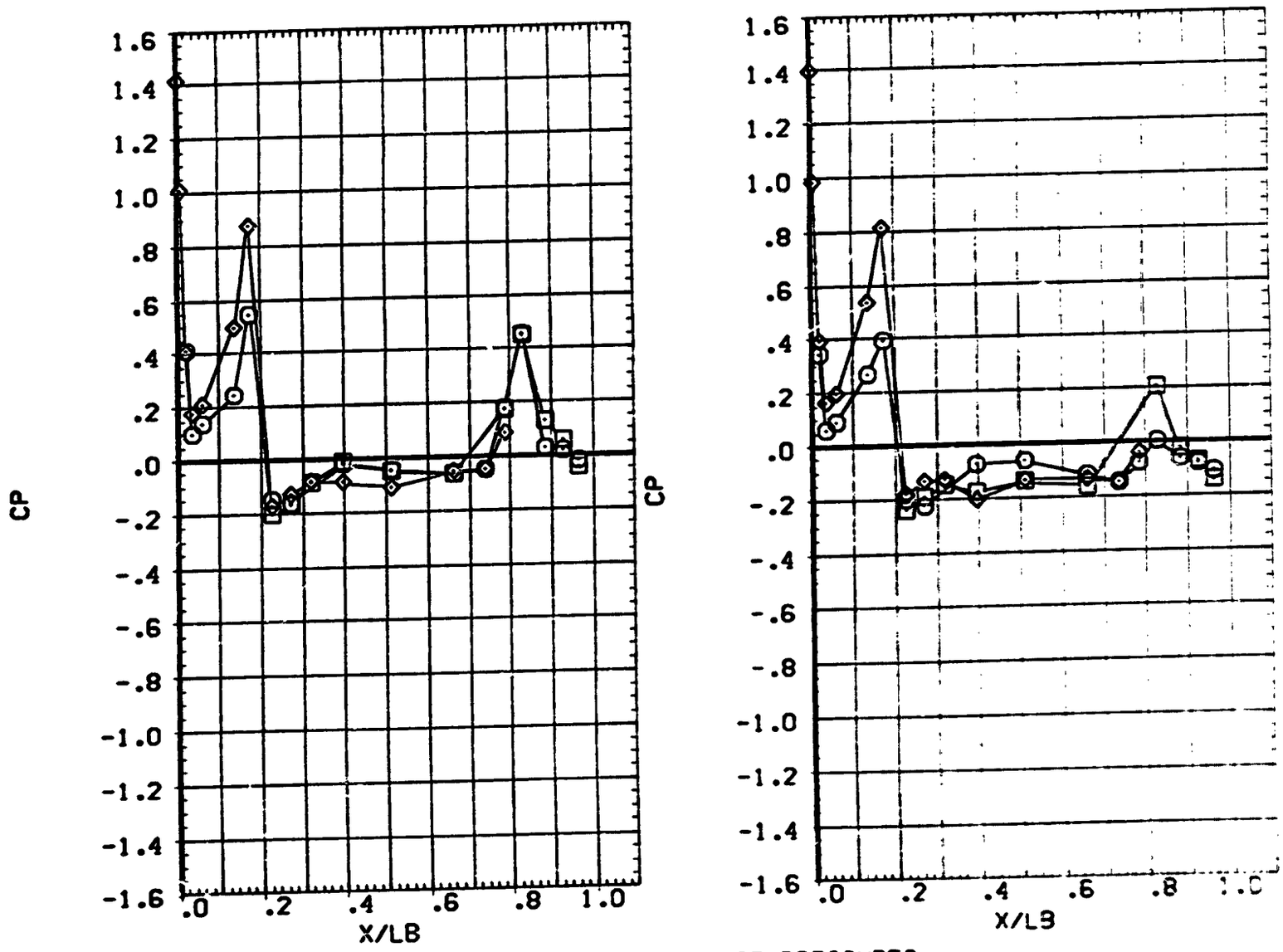
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RB0B25)

SYMBOL	PHI	BETAT	MACH
○	150.000	3.950	2.000
□	165.000	8.020	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		



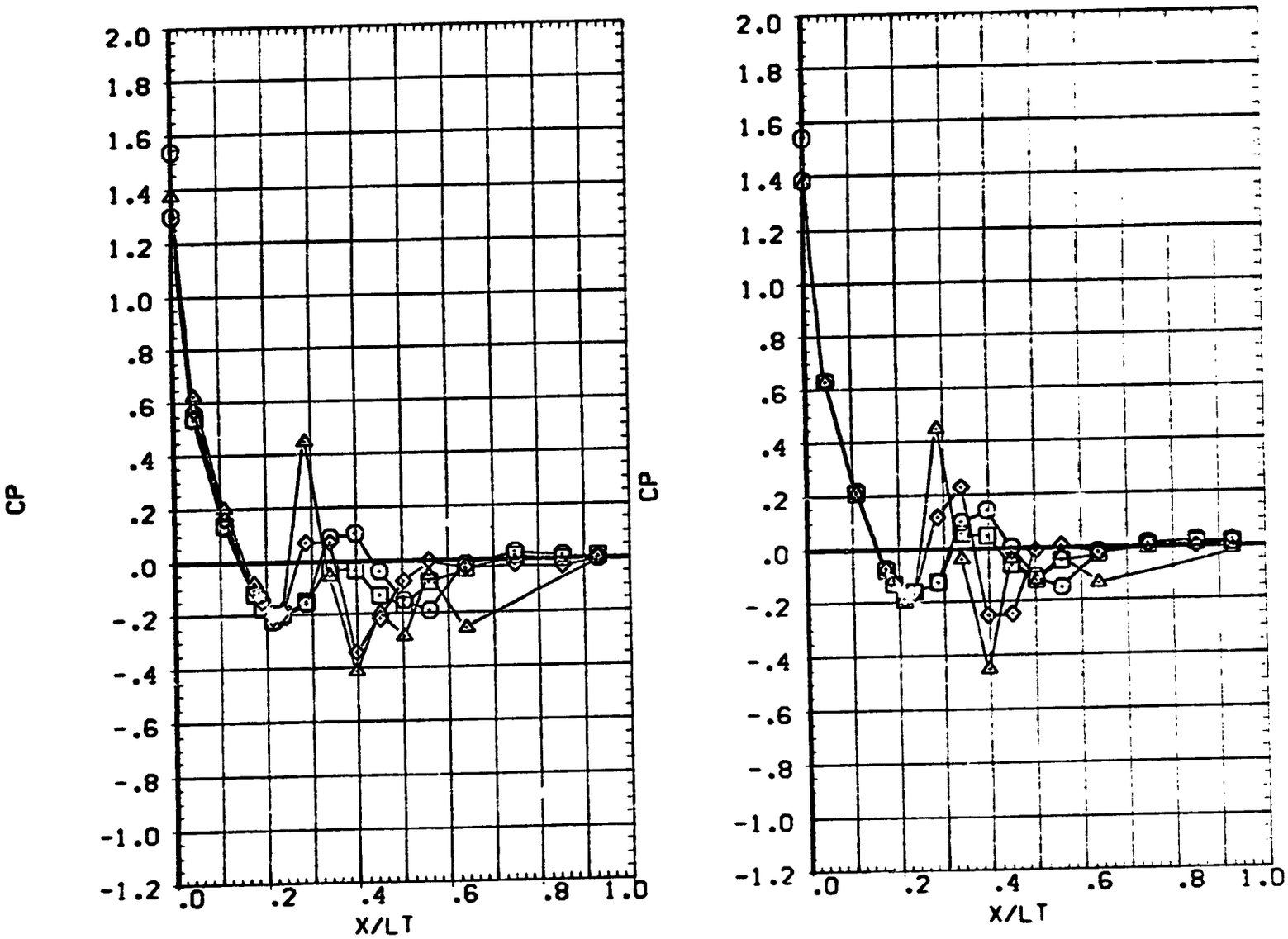
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOTO1)

SYMBOL	PHI	ALPHAT	MACH
○	.000	-4.250	1.555
□	30.000	-.120	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

BETAT	.000	SPRING	.000
RUDDER	.000	ELEVON	.000
ROLLR	.000		



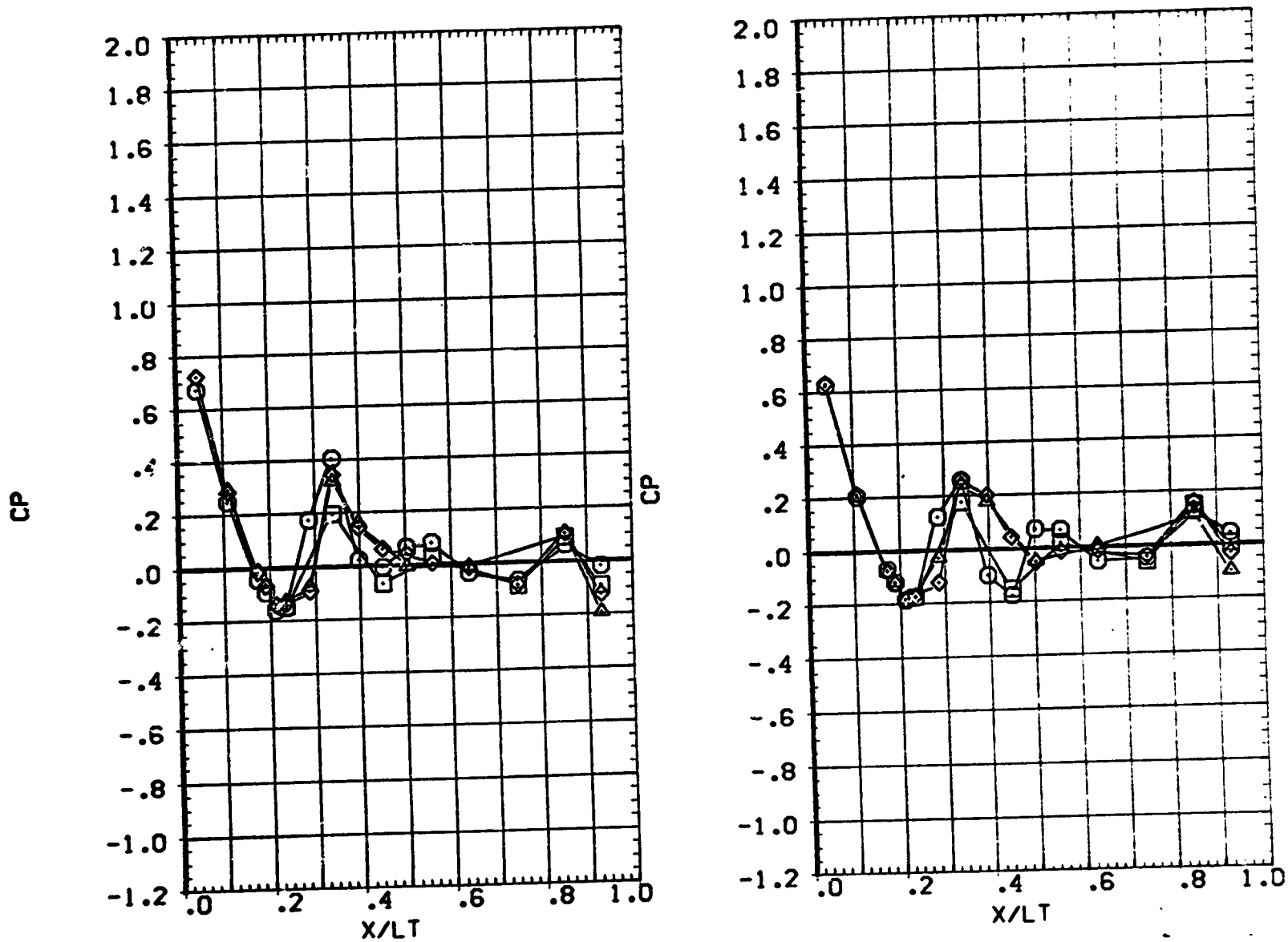
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOTO1)

SYMBOL	PHI	ALPHAT	MACH
○	120.000	-4.250	1.555
□	135.000	-.120	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



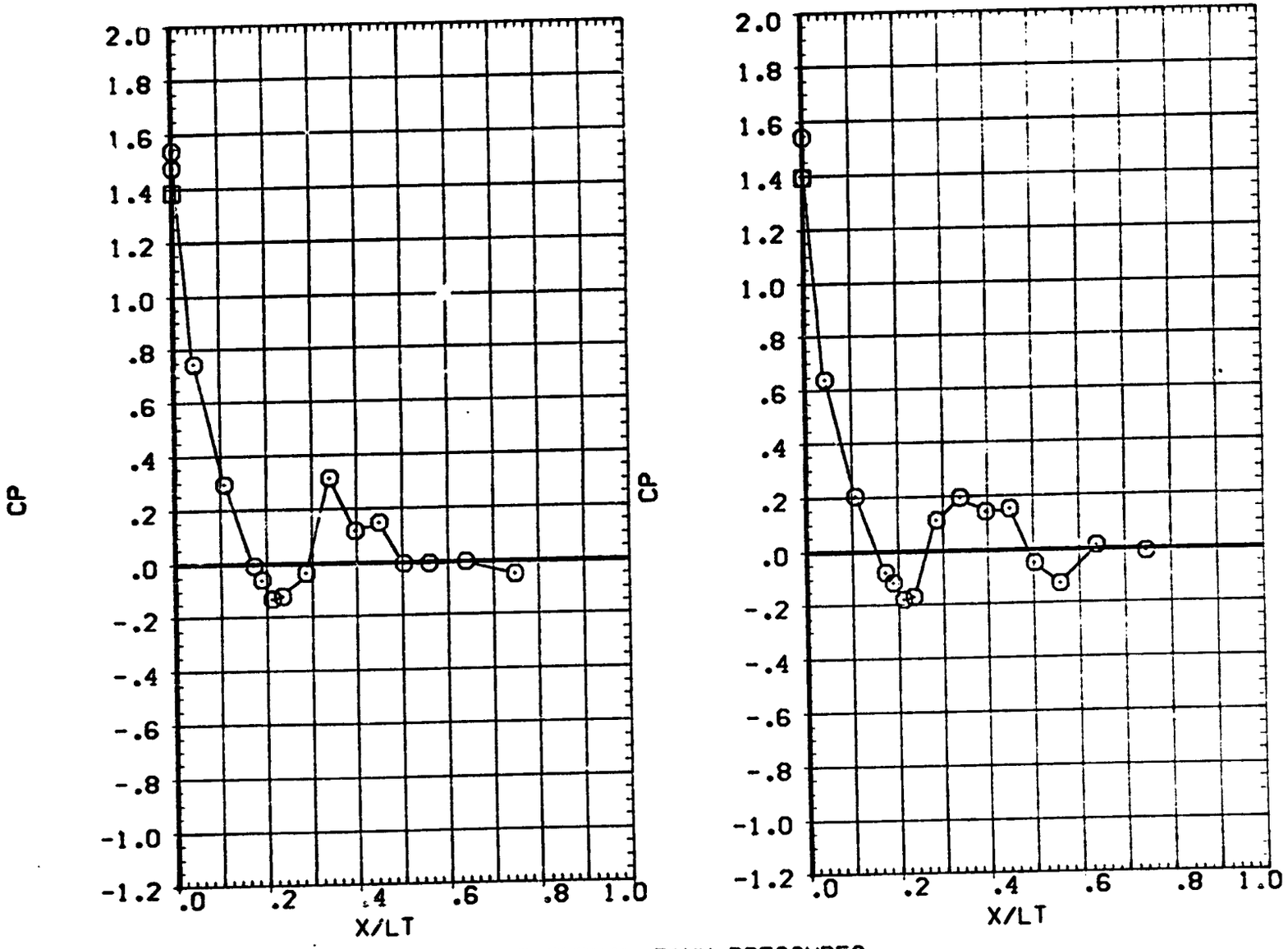
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOTO1)

SYMBOL	PHI	ALPHAT	MACH
○	180.000	-4.250	1.555
□	270.000	-.120	

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



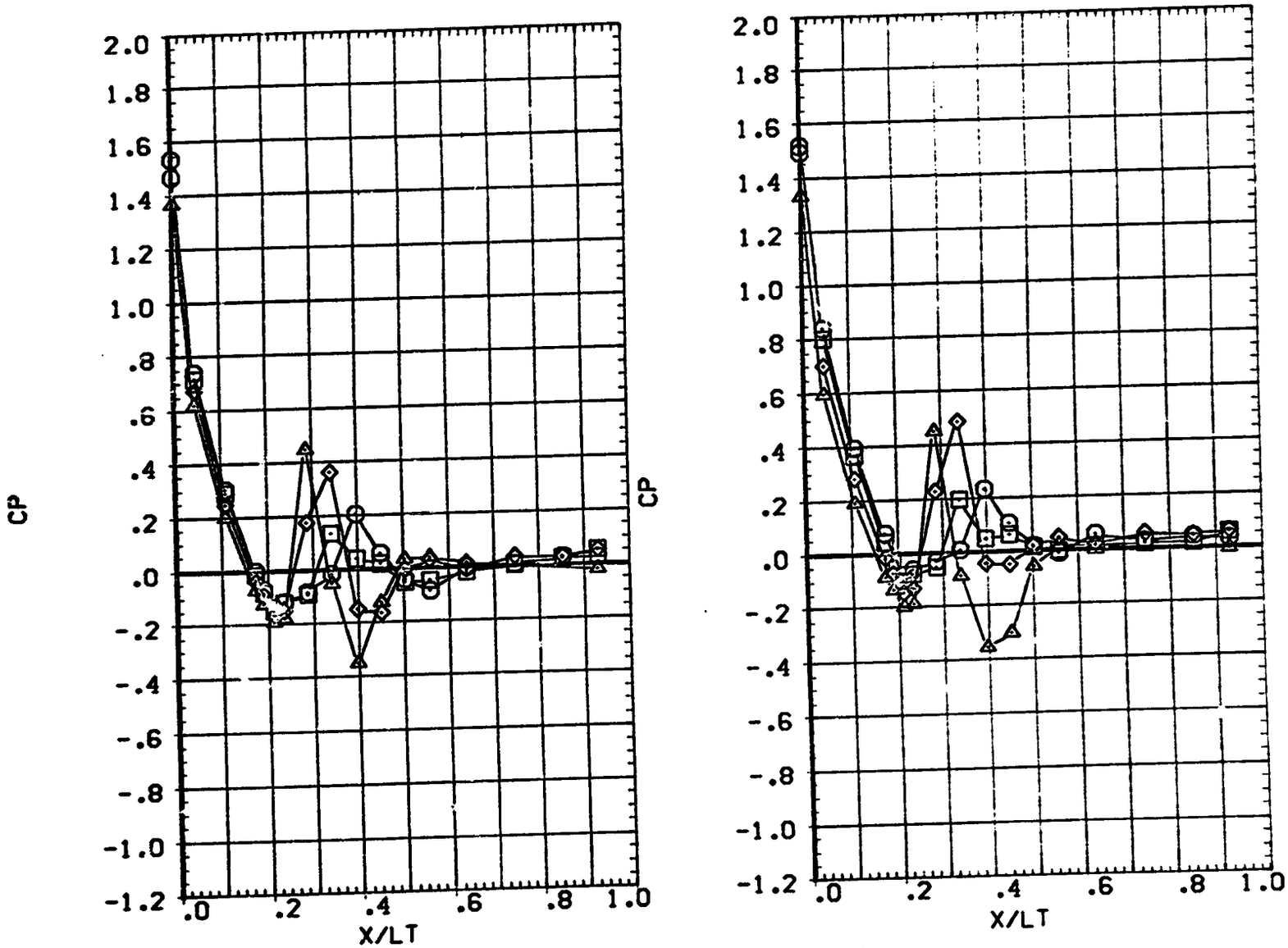
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (REJECTED)

SYMBOL	PHI	ALPHAT	MACH
○	.000	4.010	1.555
□	30.000	8.130	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



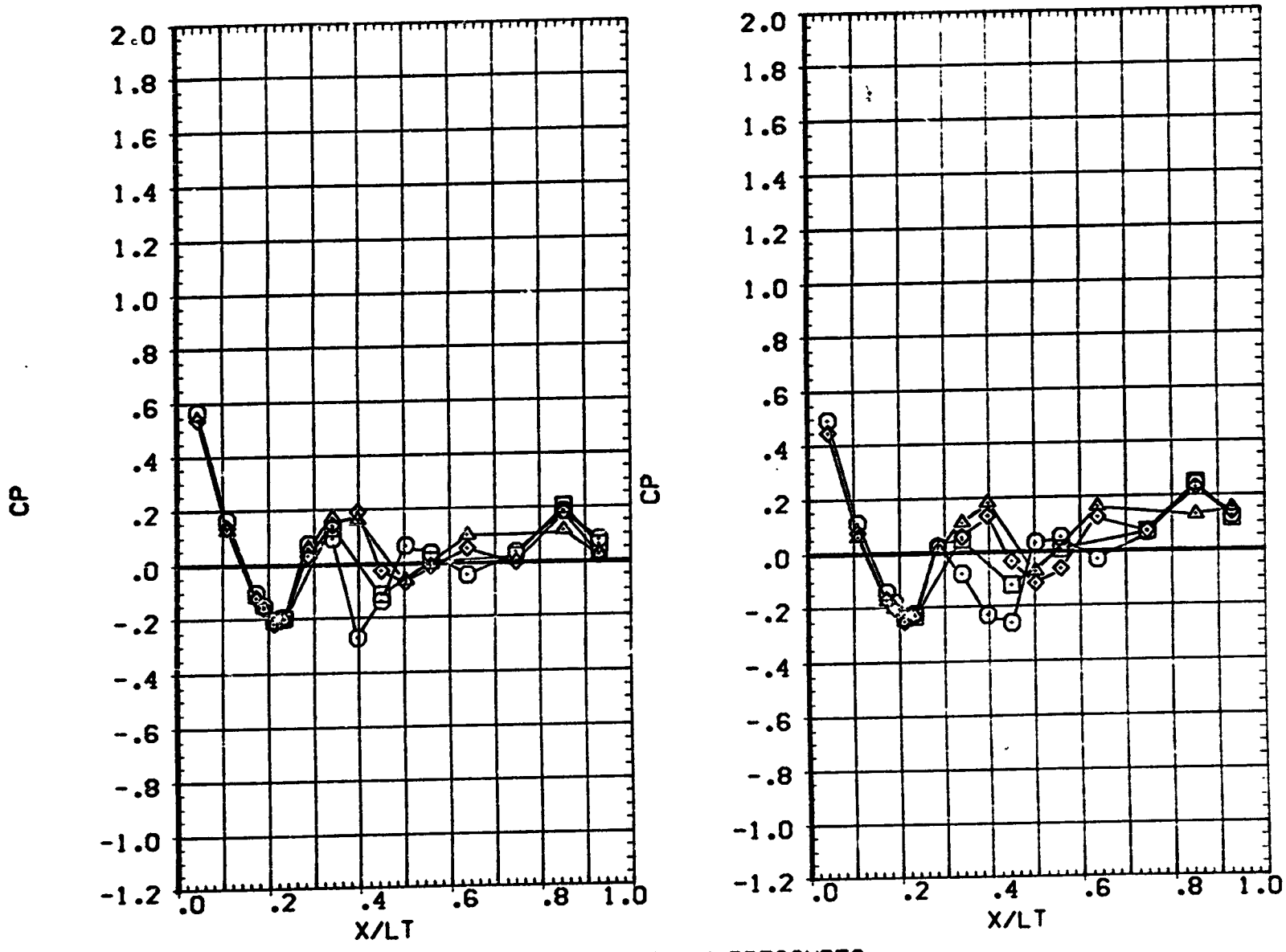
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOTOI)

SYMBOL	PHI	ALPHAT	MACH
○	120.000	4.010	1.555
□	135.000	8.130	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



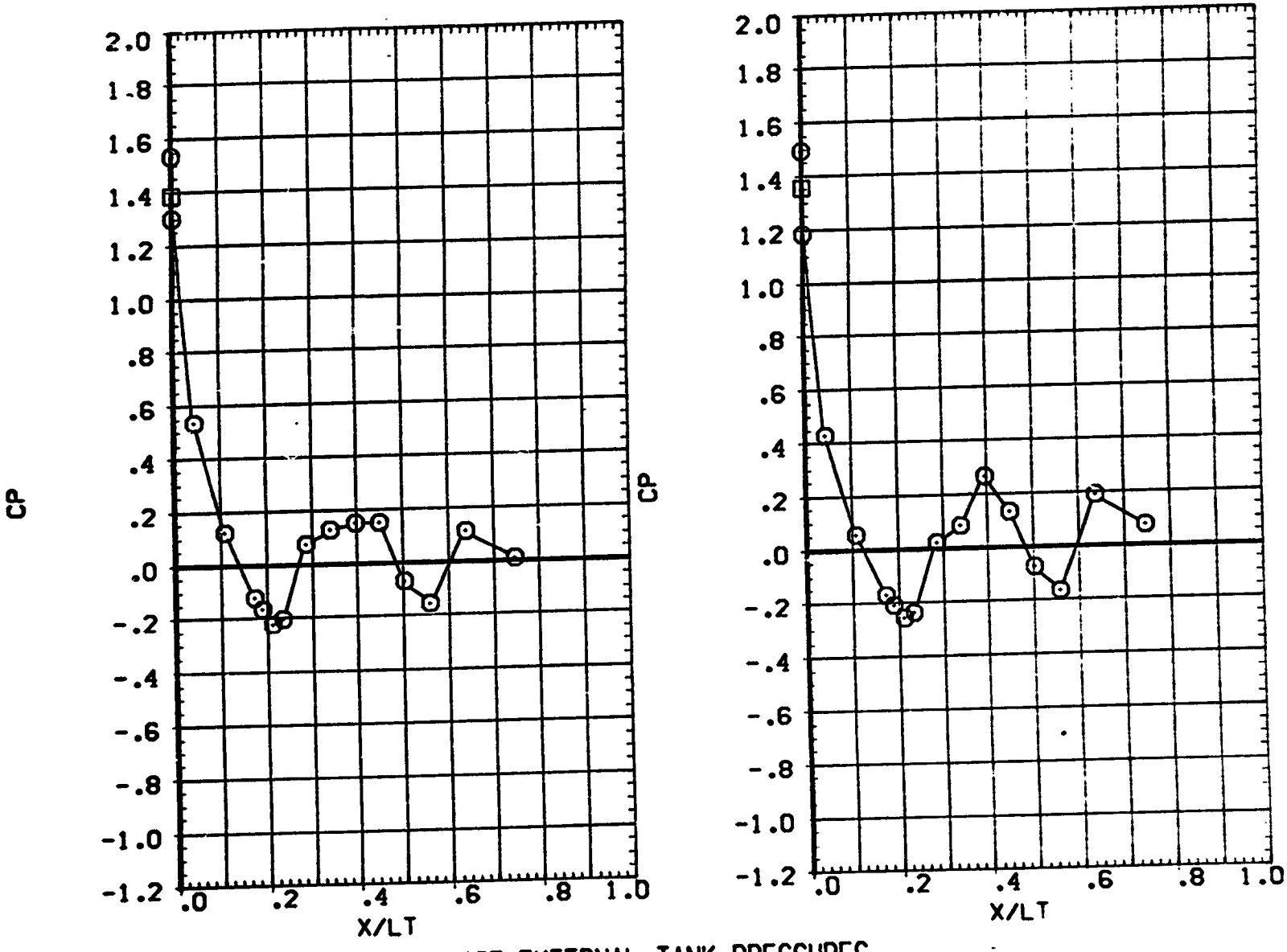
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOTO1)

SYMBOL	PHI	ALPHAT	MACH
○	180.000	4.010	1.555
□	270.000	6.130	

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



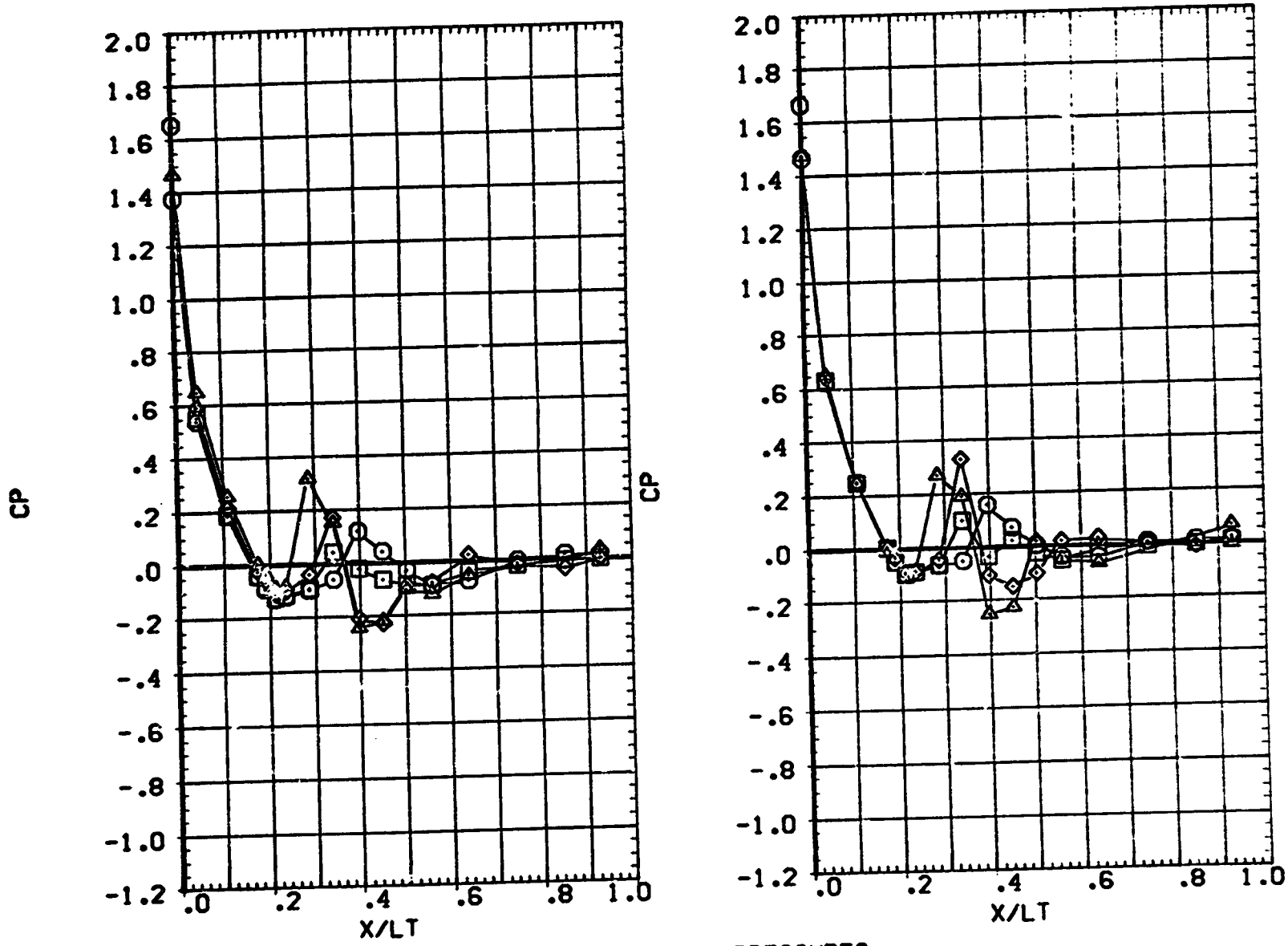
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOT01)

SYMBOL	PHI	ALPHAT	MACH
○	.000	-4.250	2.000
□	30.000	-.160	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

BETAT	.000	DBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



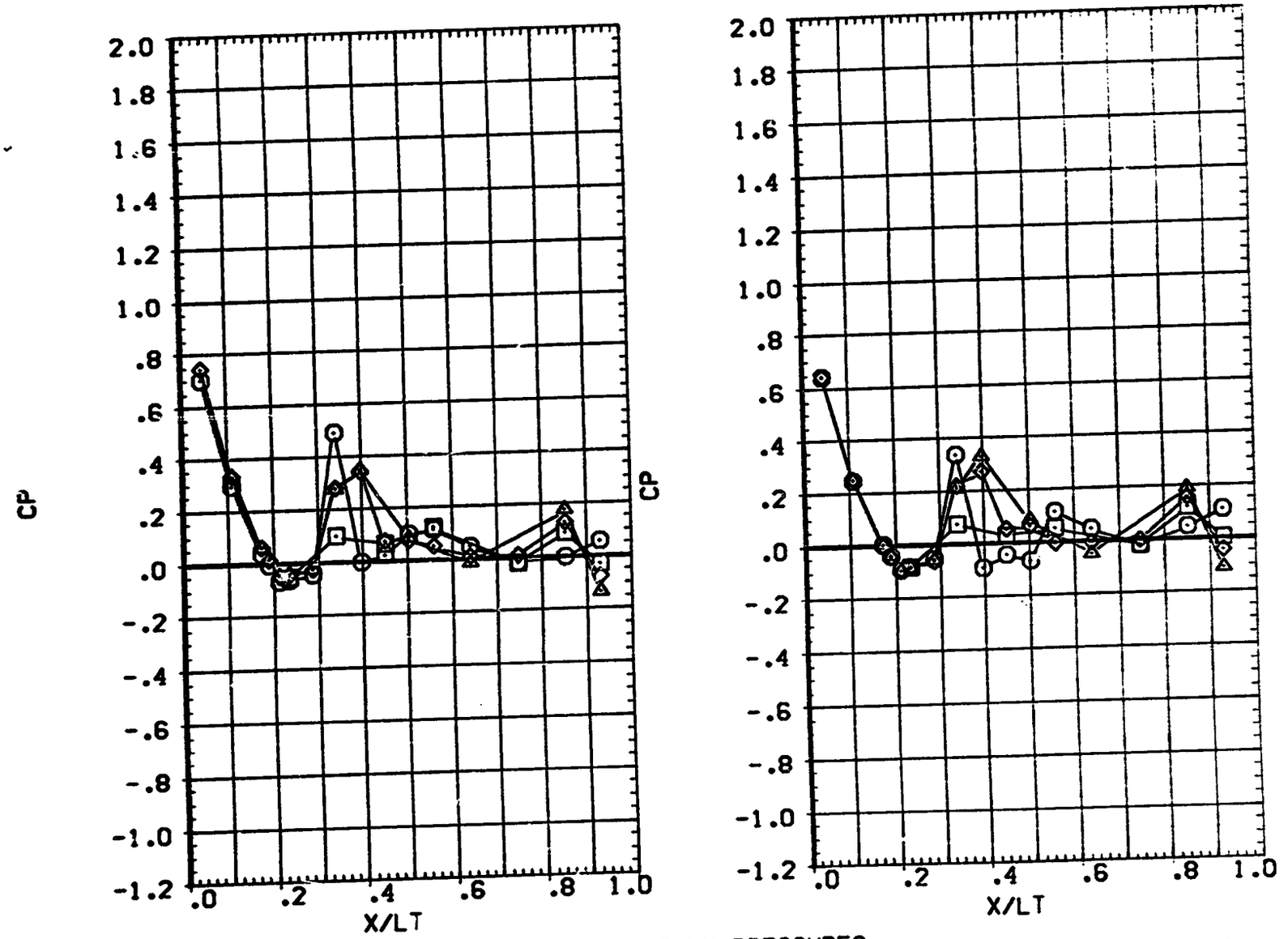
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RB0T01)

SYMBOL	PHI	ALPHAT	MACH
○	120.000	-4.250	2.000
□	135.000	-.160	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

BETAT	.000	DRSINC	.500
RUDDER	.000	ELEVCN	.000
RUDFLR	.000		



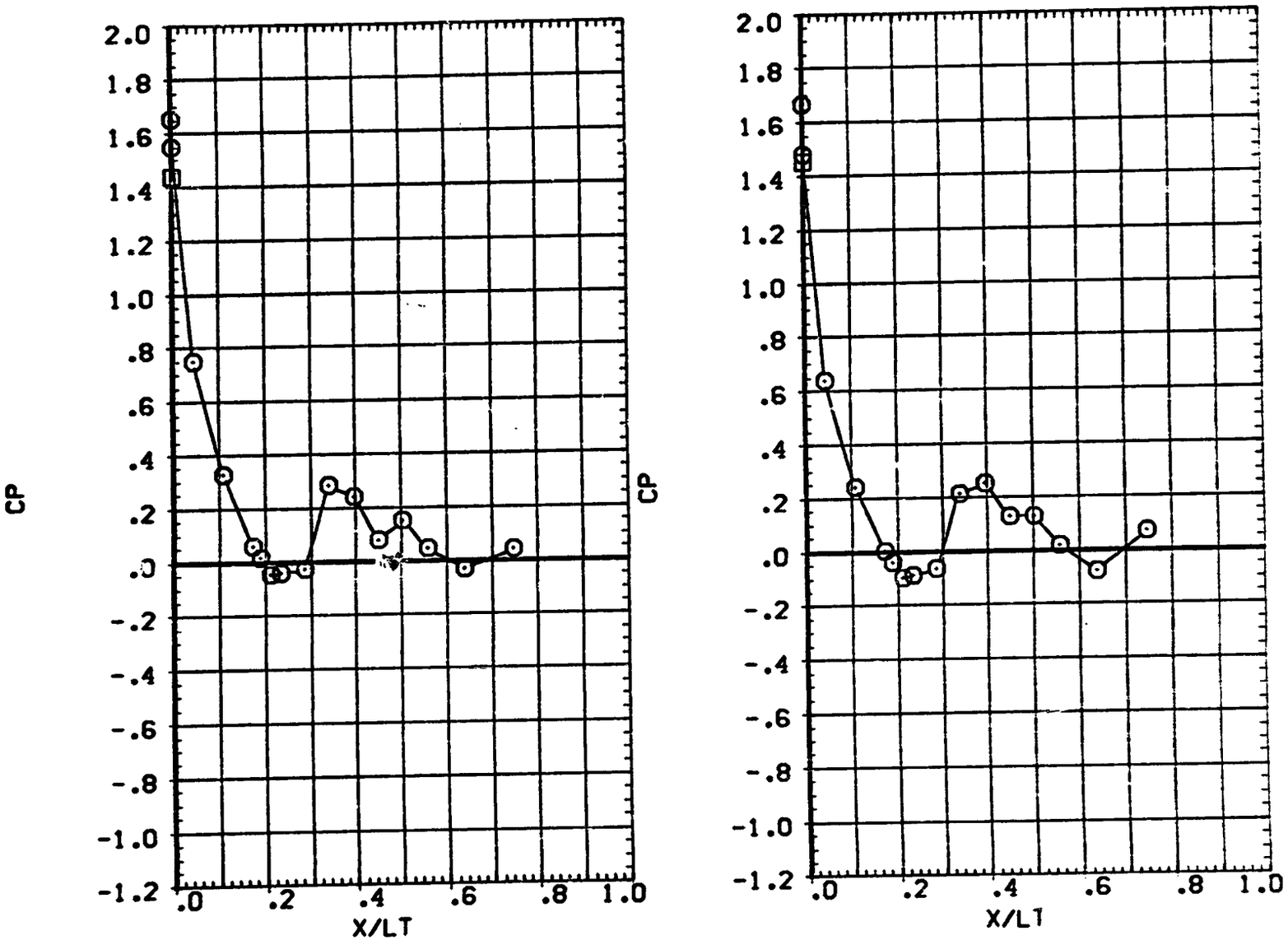
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOTO1)

SYMBOL	PHI	ALPHAT	MACH
○	180.000	-4.250	2.000
□	270.000	-.160	

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVCN	.000
RUDFLR	.000		



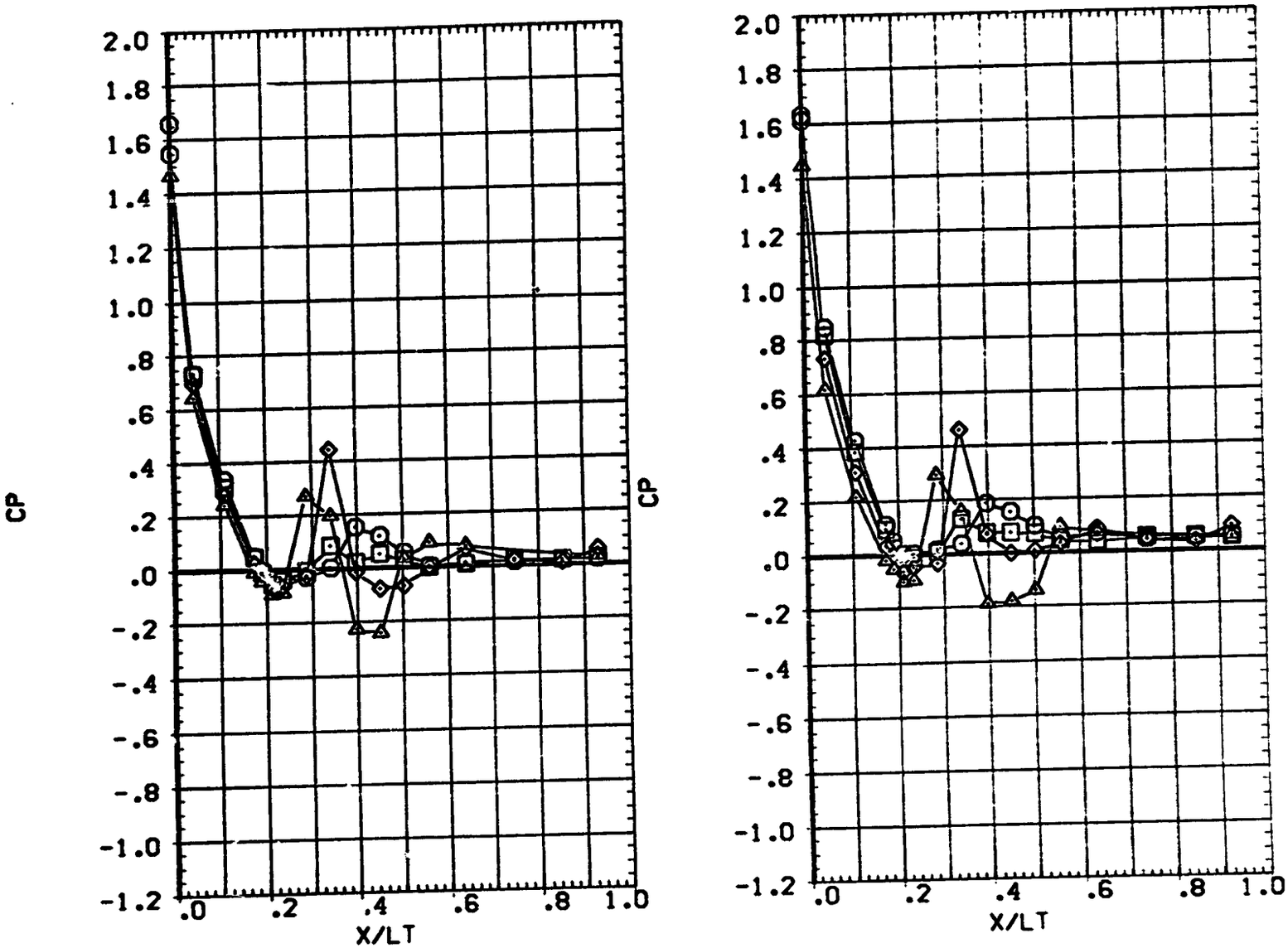
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOTO1)

SYMBOL	PHI	ALPHAT	MACH
○	.000	3.930	2.000
□	30.000	8.020	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
ROCER	.000	ELEVON	.000
ROLR	.000		



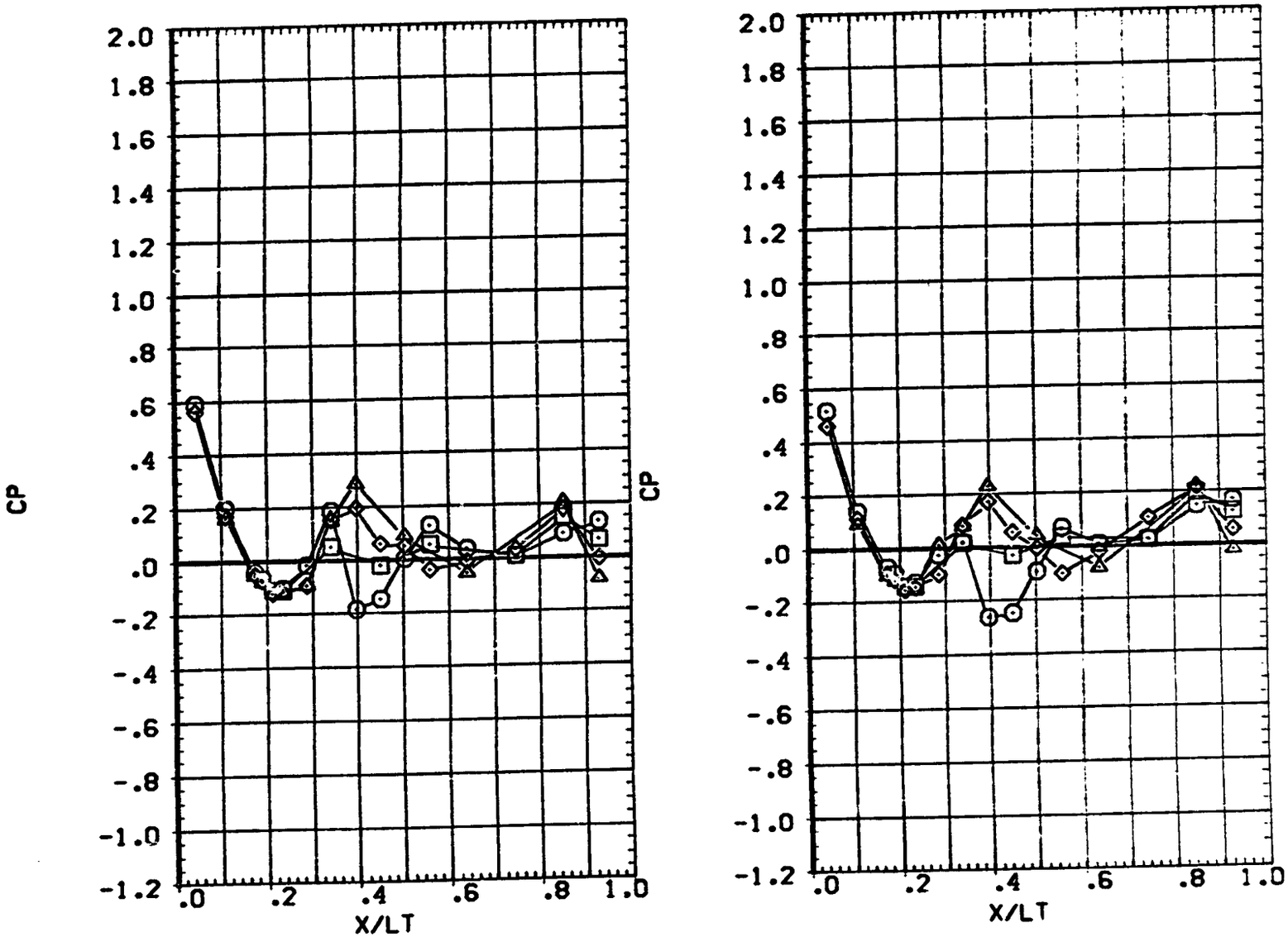
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOTO1)

SYMBOL	PHI	ALPHAT	MACH
○	120.000	3.930	2.000
□	135.000	8.020	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

BETAT	.000	SRBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



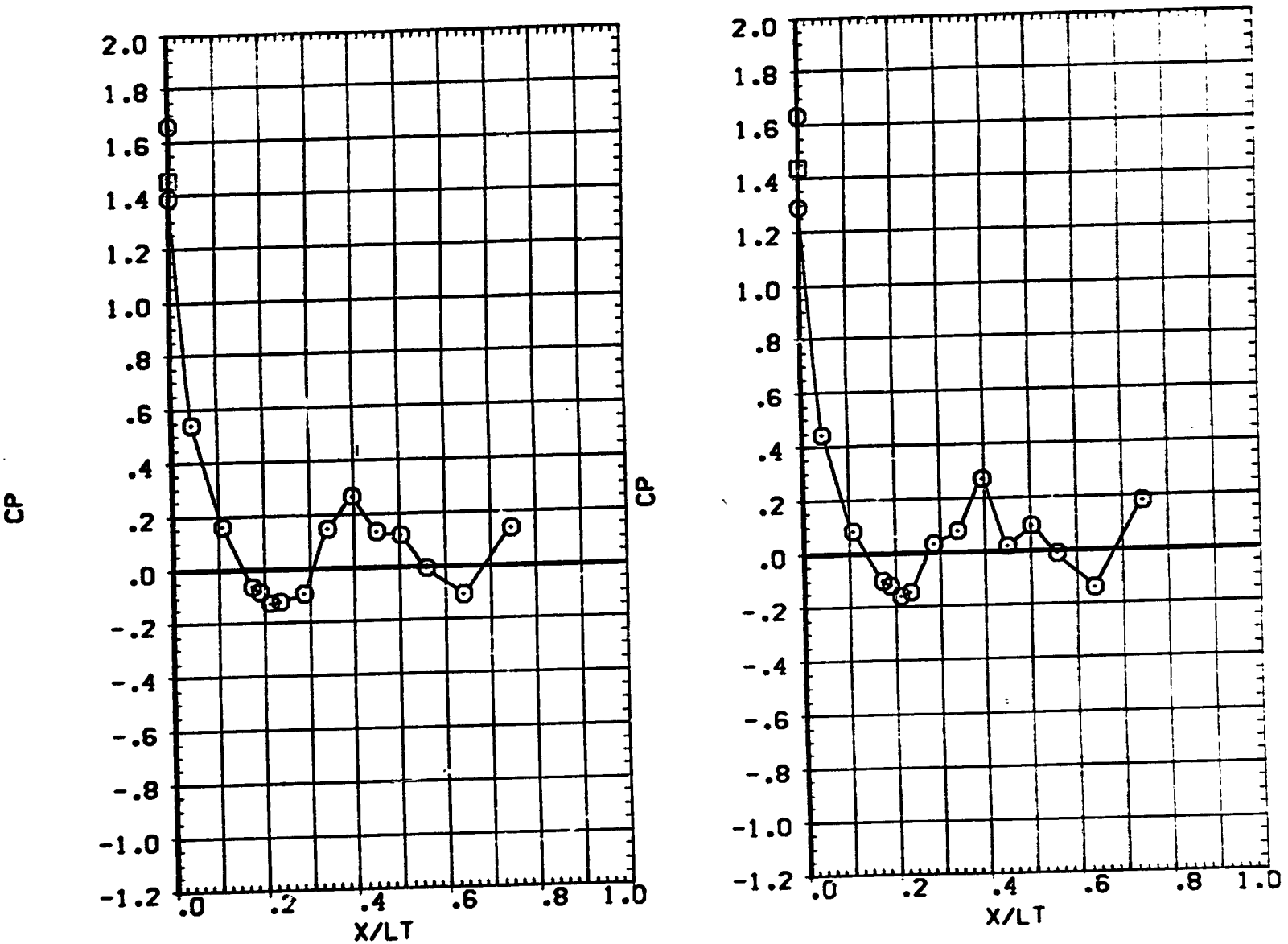
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOT01)

SYMBOL	PHI	ALPHAT	MACH
○	180.000	3.930	2.000
□	270.000	8.020	

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



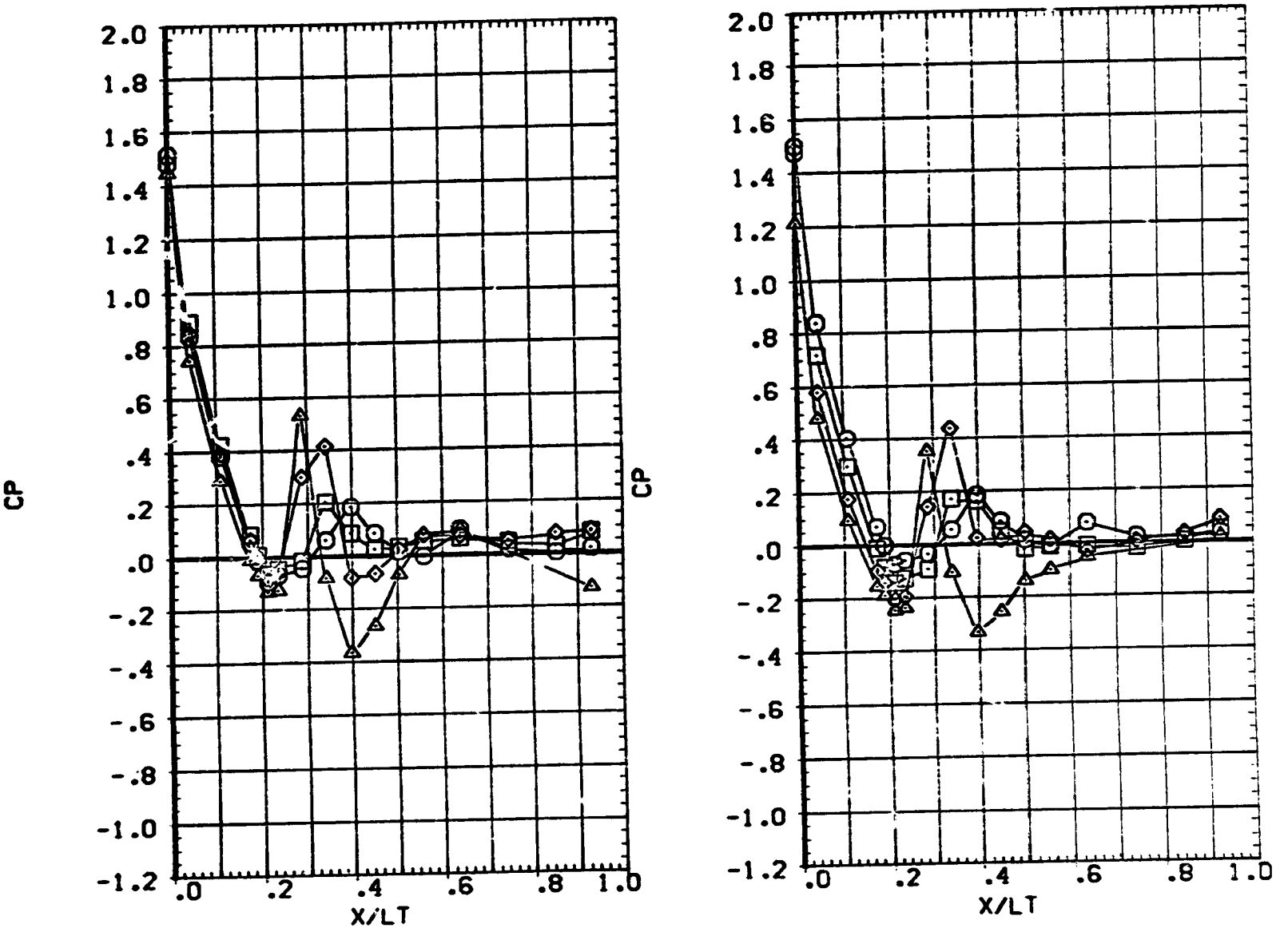
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOT02)

SYMBOL	PHI	BETAT	MACH
○	.000	-5.100	1.555
□	30.000	5.110	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



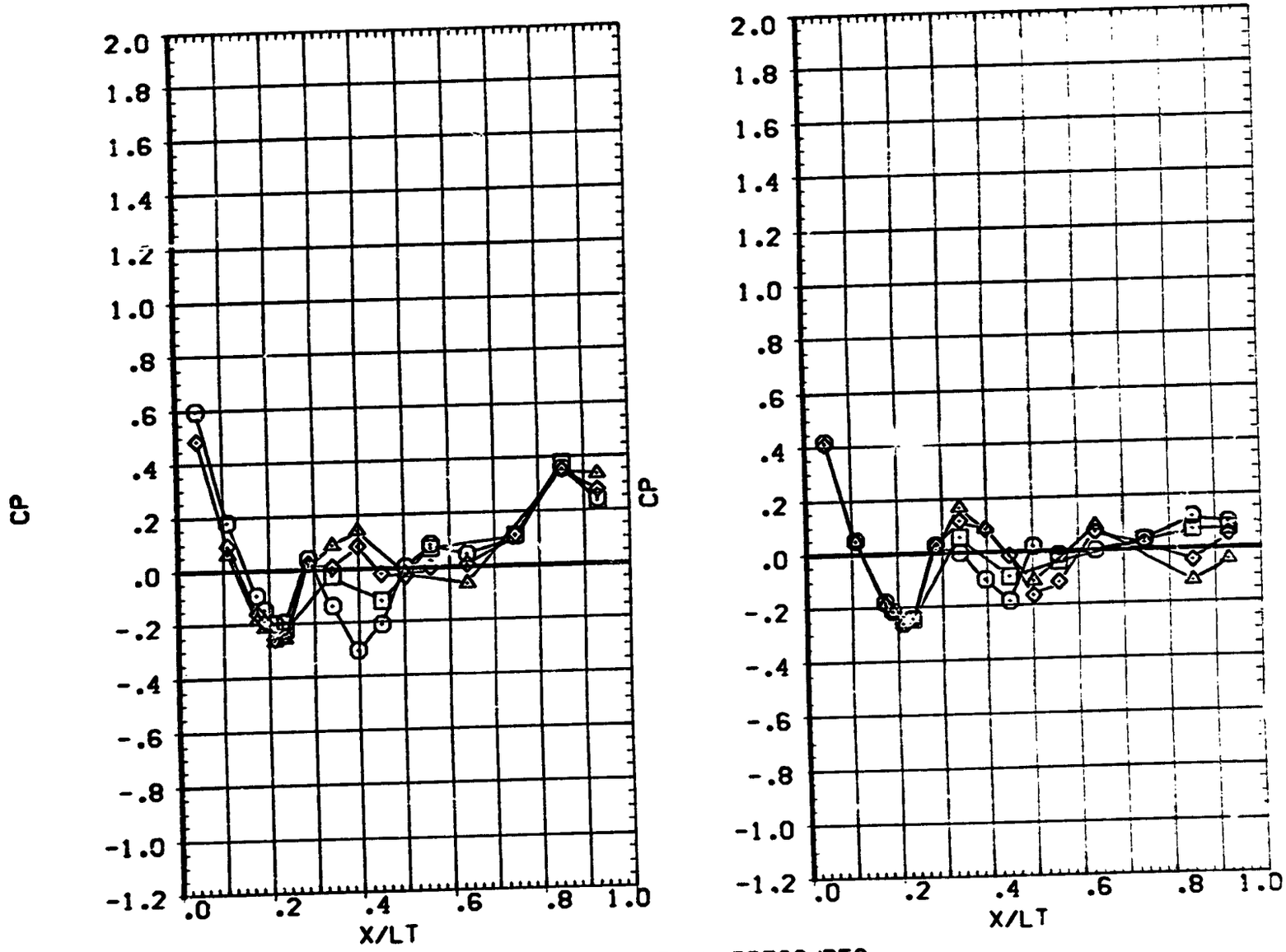
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOT02)

SYMBOL	PHI	BETAT	MACH
○	120.000	-5.100	1.555
□	135.000	5.110	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	8.000	SPBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



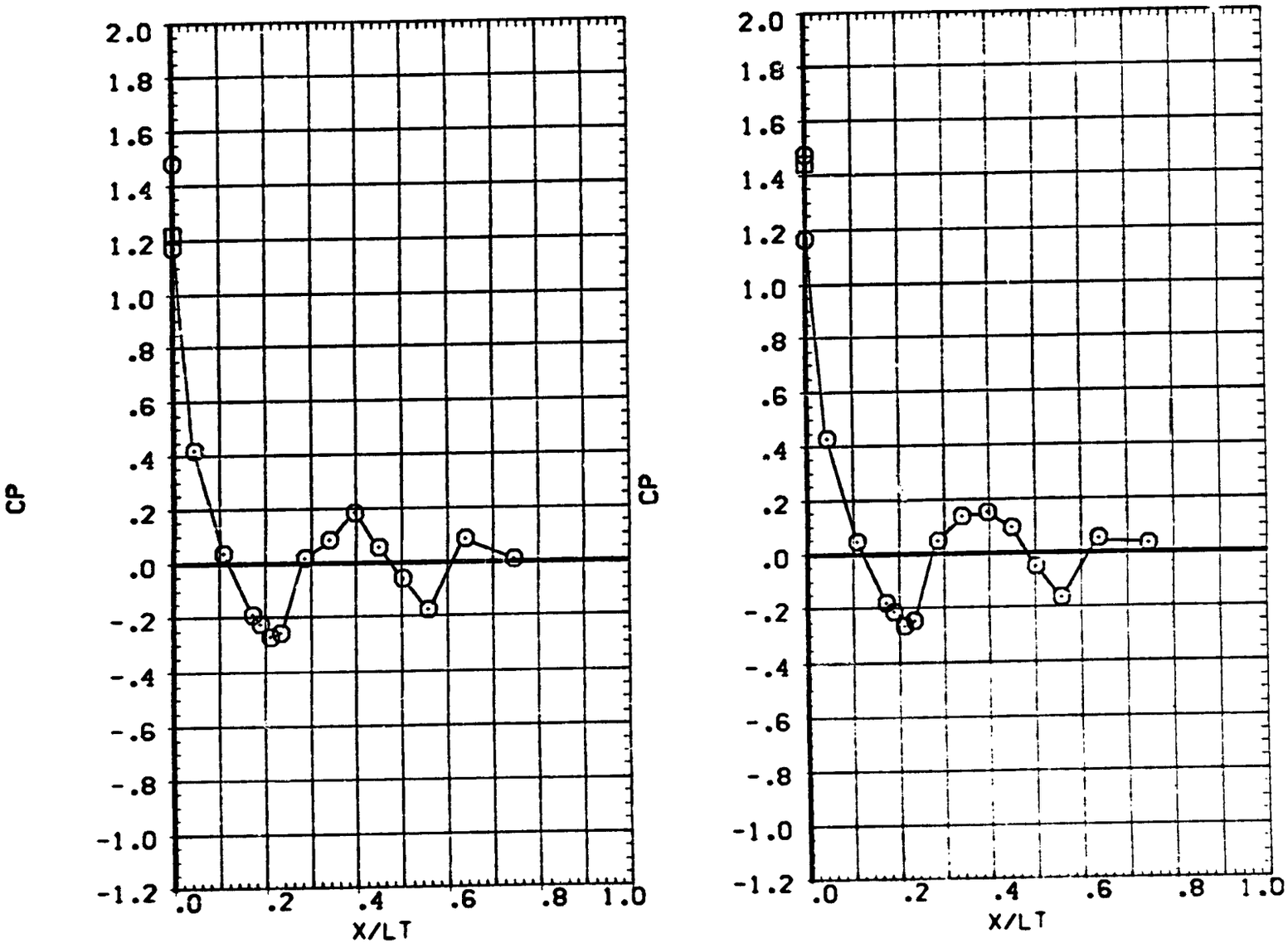
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES S7-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBCTC2)

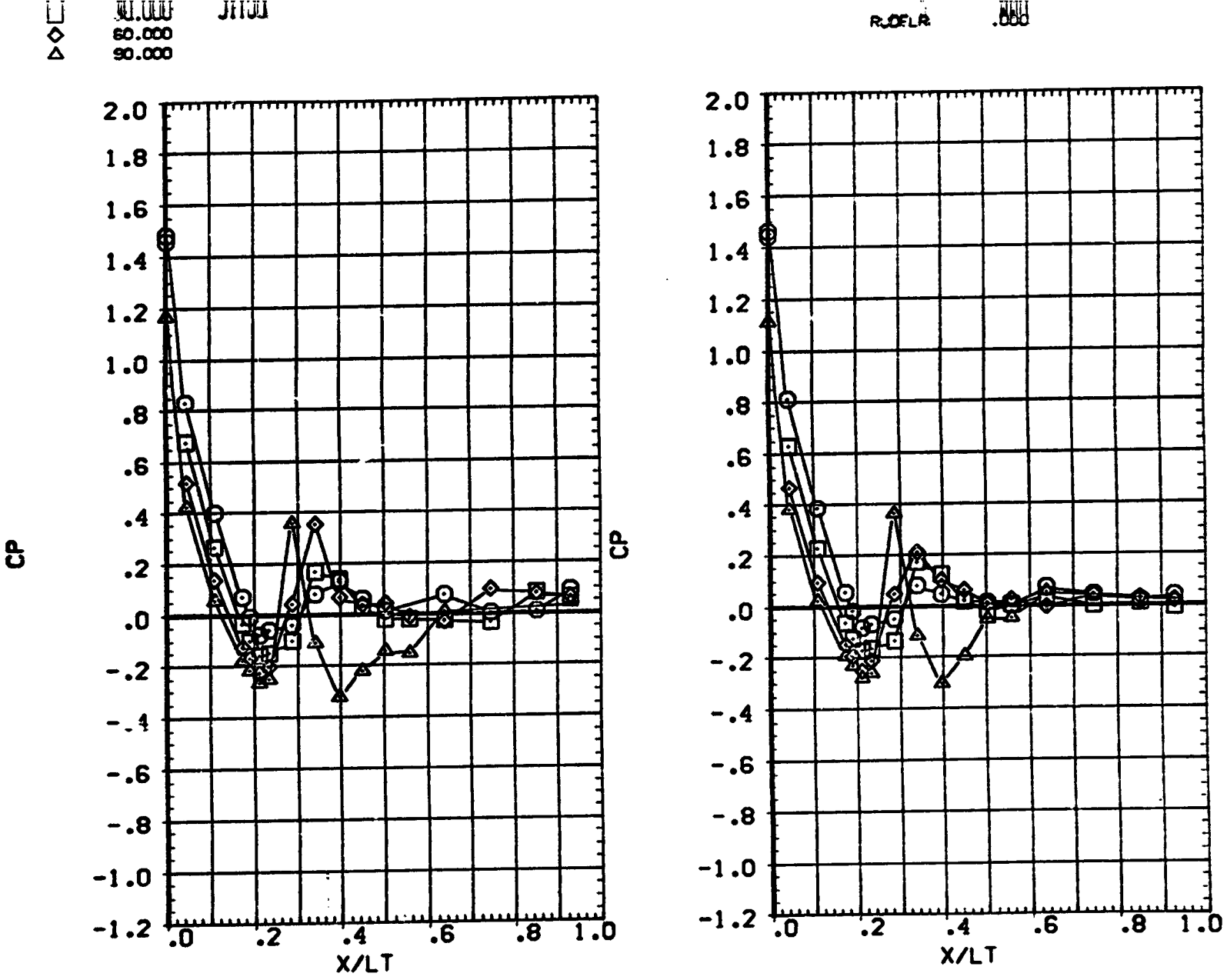
SYMBOL	PHI	PETAT	MACH
○	180.000	-5.100	1.555
□	270.000	5.110	

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



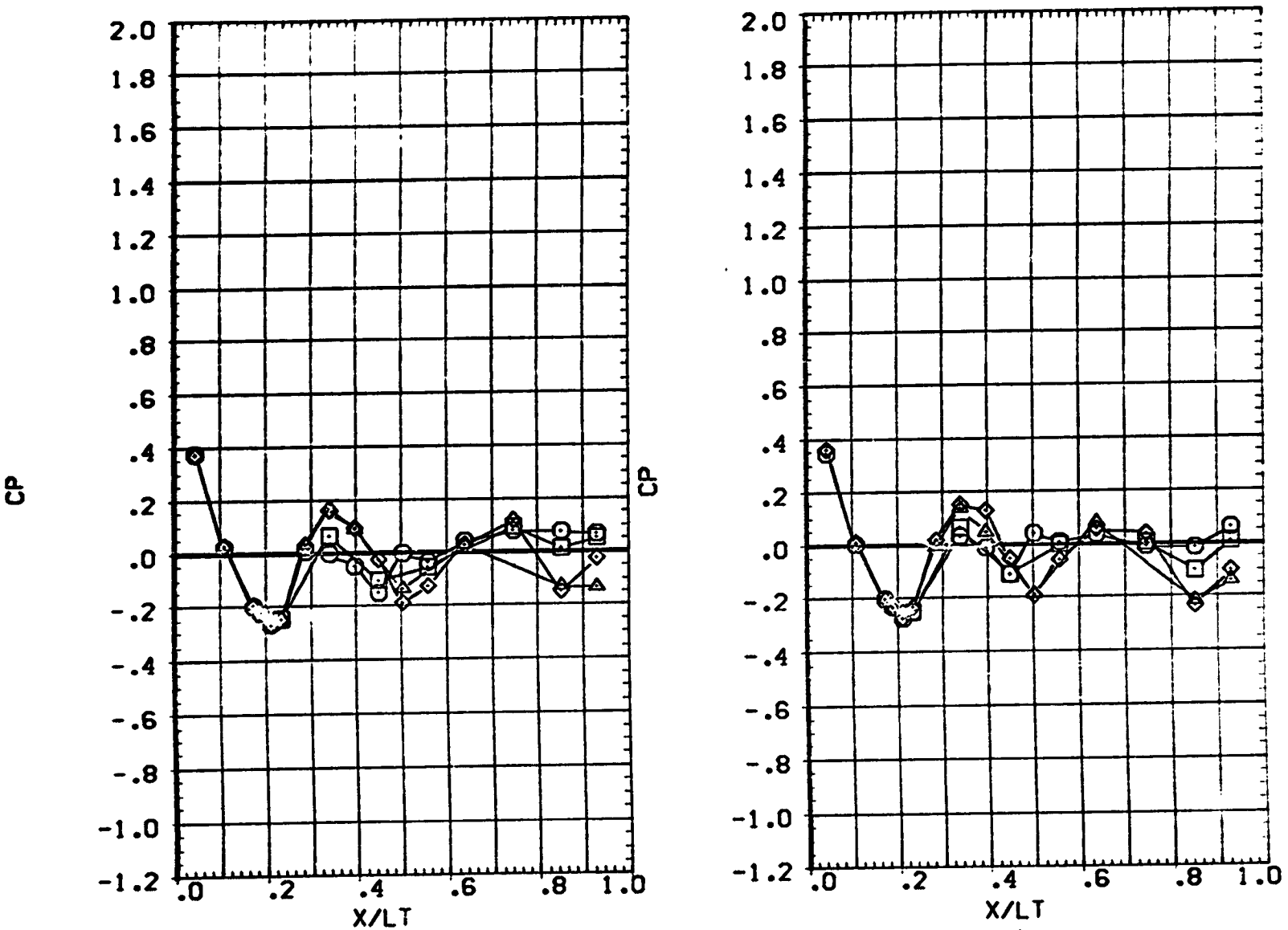
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK-PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOT02)

SYMBOL	PHI	BETAT	MACH
○	120.000	7.140	1.555
□	135.000	9.190	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



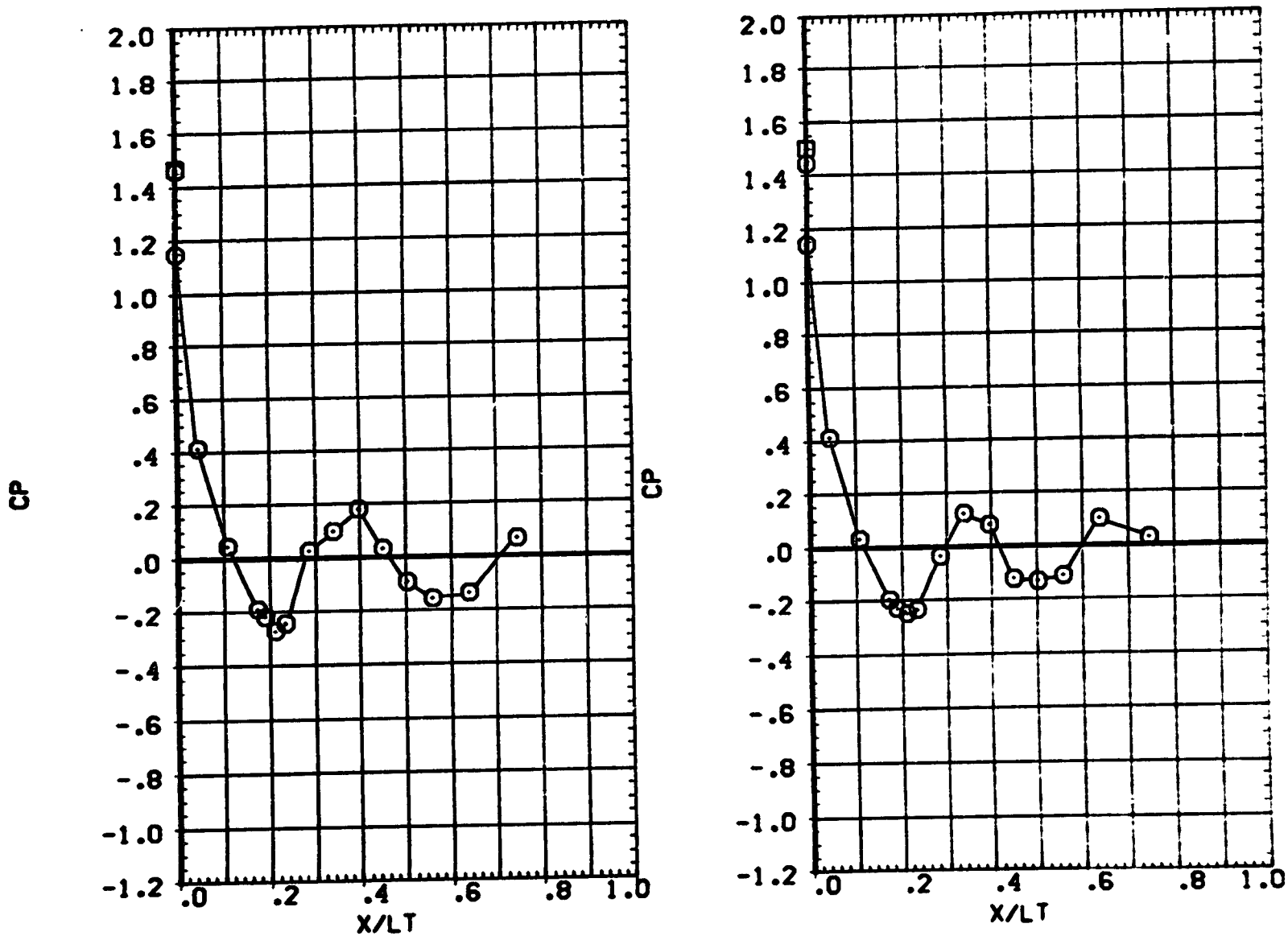
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RUN102)

SYMBOL	PHI	BETAT	MACH
○	180.000	7.140	1.555
□	270.000	9.190	

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



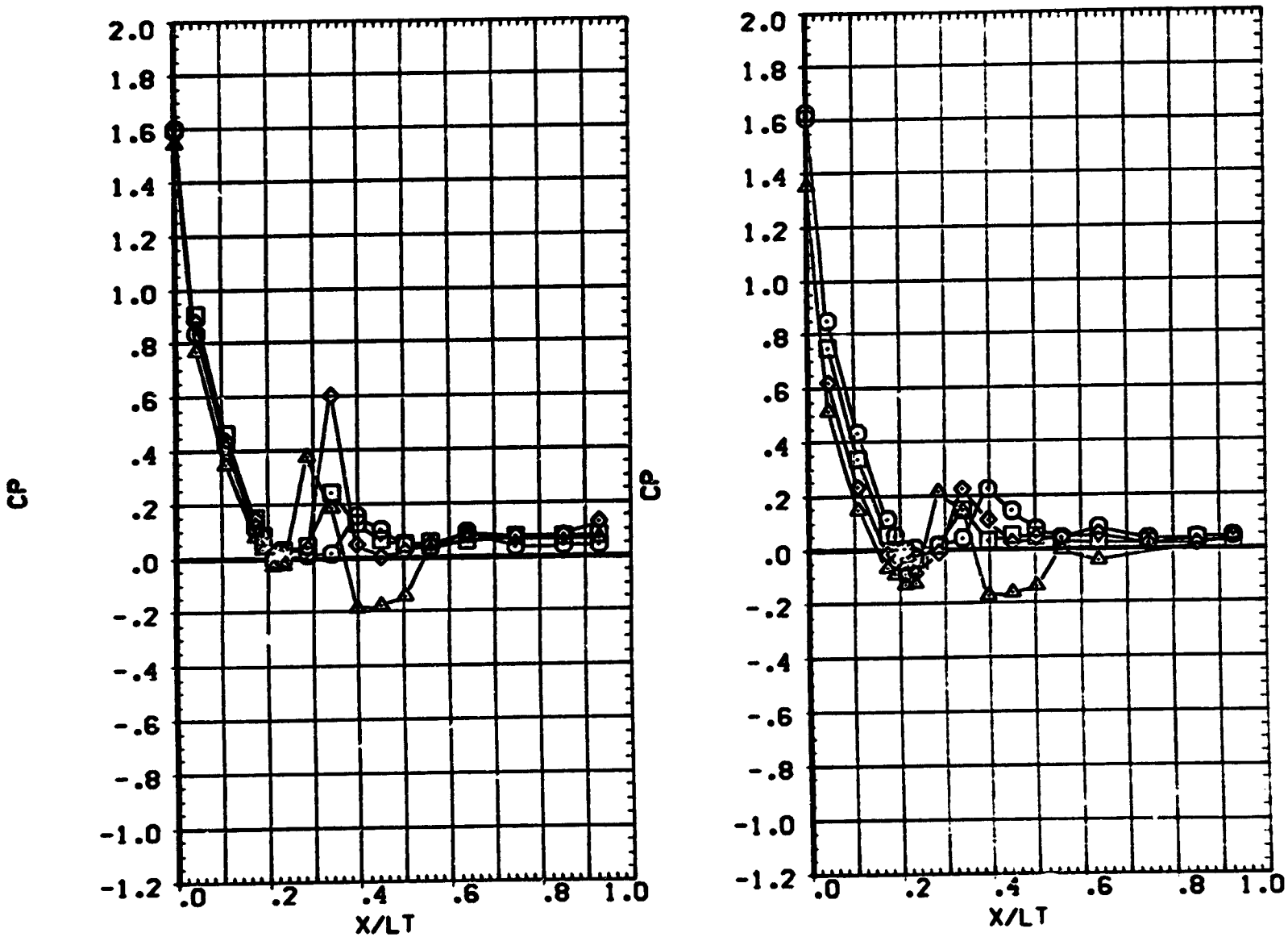
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK (RB0T02)

SYMBOL	PHI	BETAT	MACH
○	.000	-6.270	2.000
□	30.000	3.990	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



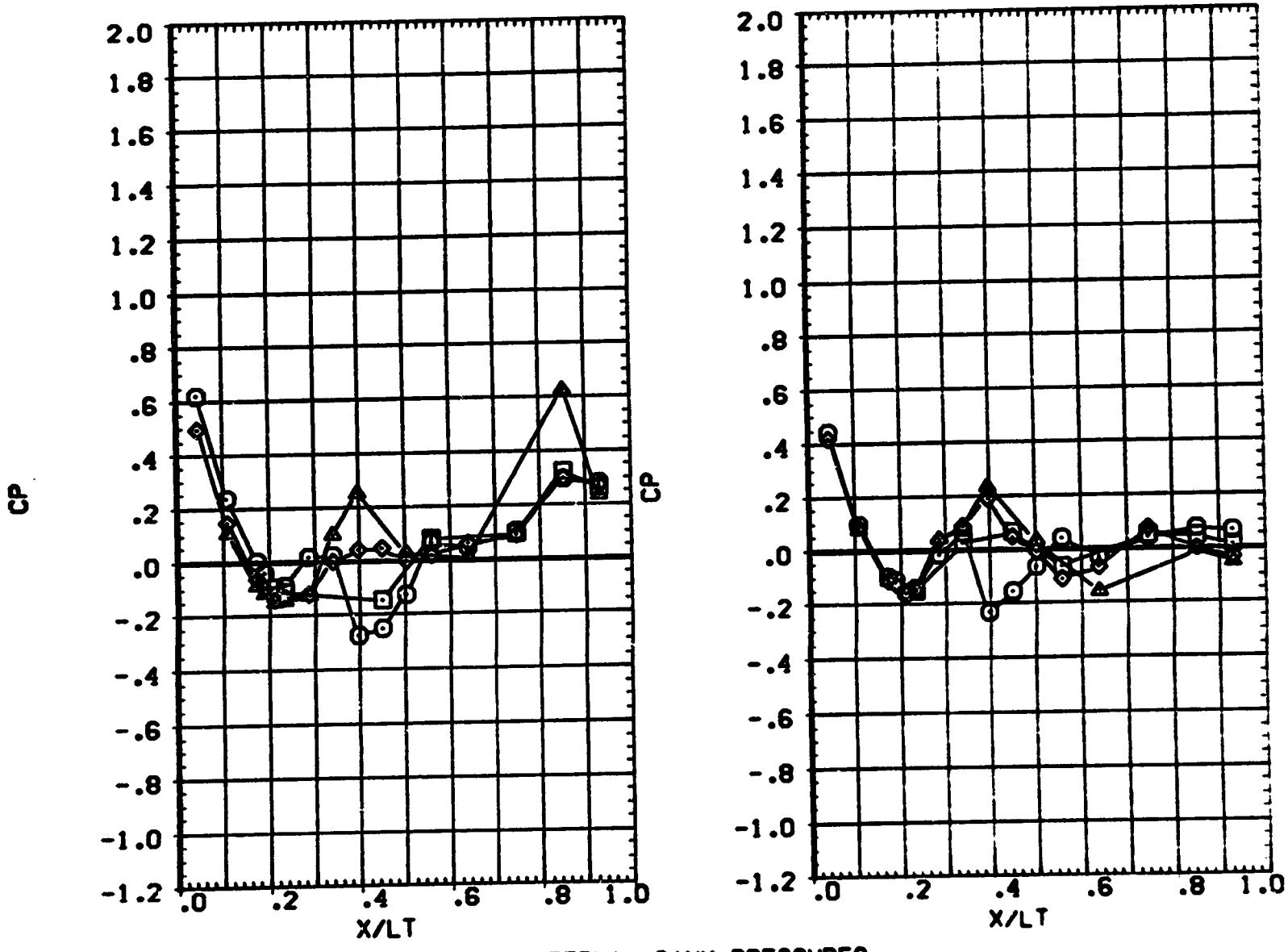
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBOT02)

SYMBOL	PHI	BETAT	MACH
○	120.000	-6.270	2.000
□	135.000	3.990	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



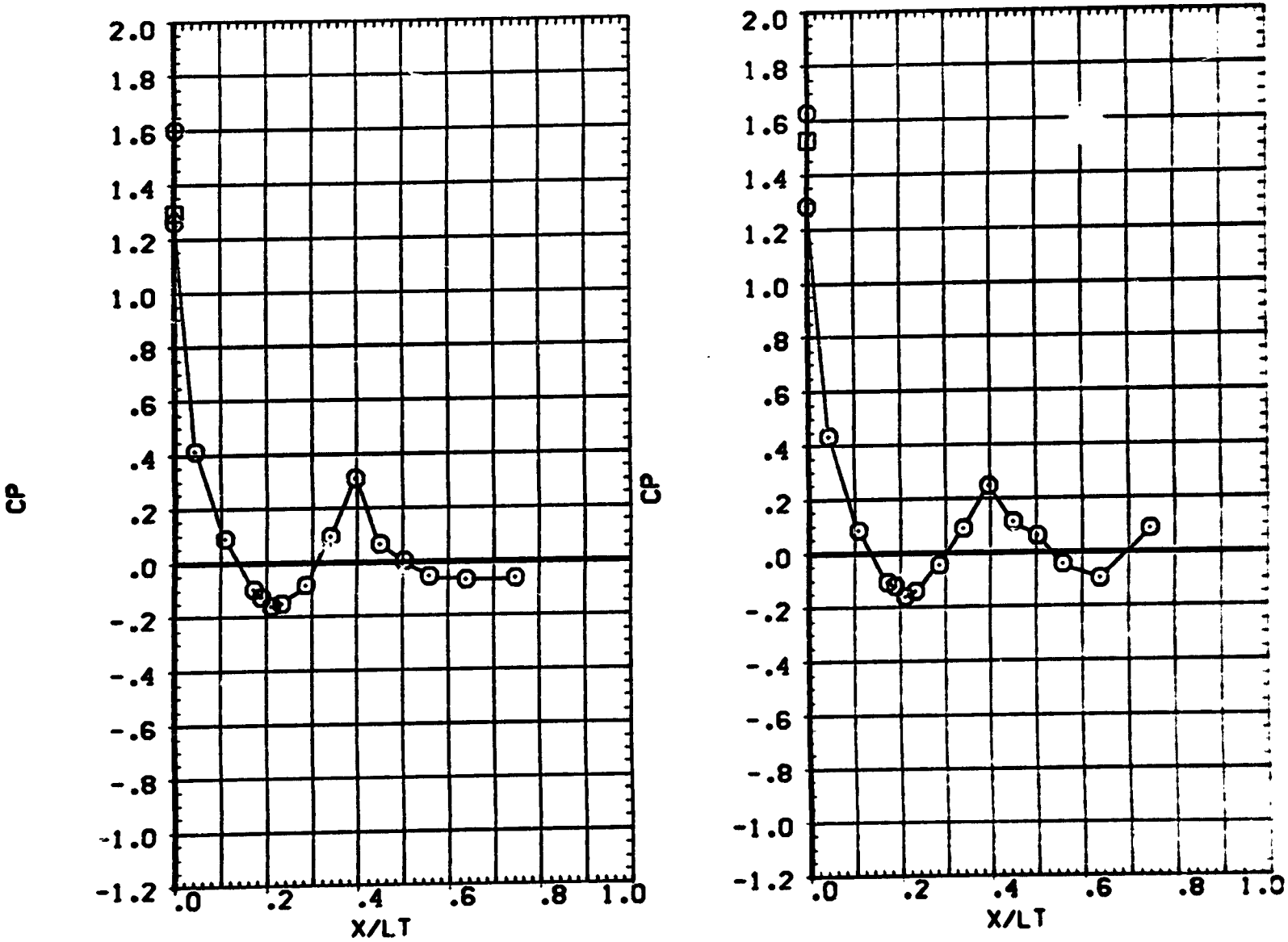
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RB0T02)

SYMBOL	PHI	BETAT	MACH
○	180.000	-6.270	2.000
□	270.000	3.990	

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



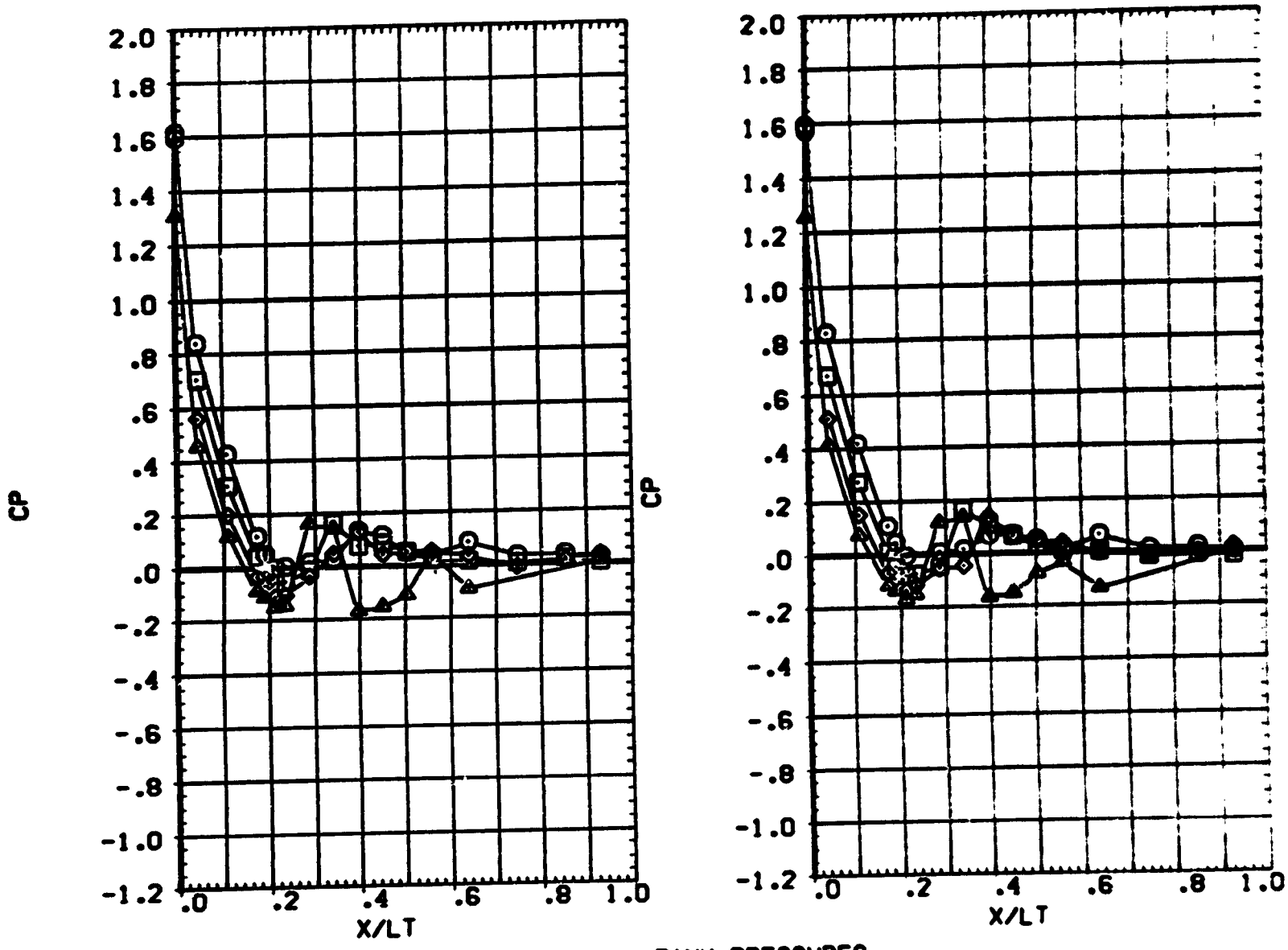
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + Y9 EXTERNAL TANK (RBOT02)

SYMBOL	PHI	BETAT	MACH
○	.000	6.060	2.000
□	30.000	8.120	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	8.000	DELINC	.000
RUDDER	.000	ELEVON	.000
ROLLR	.000		



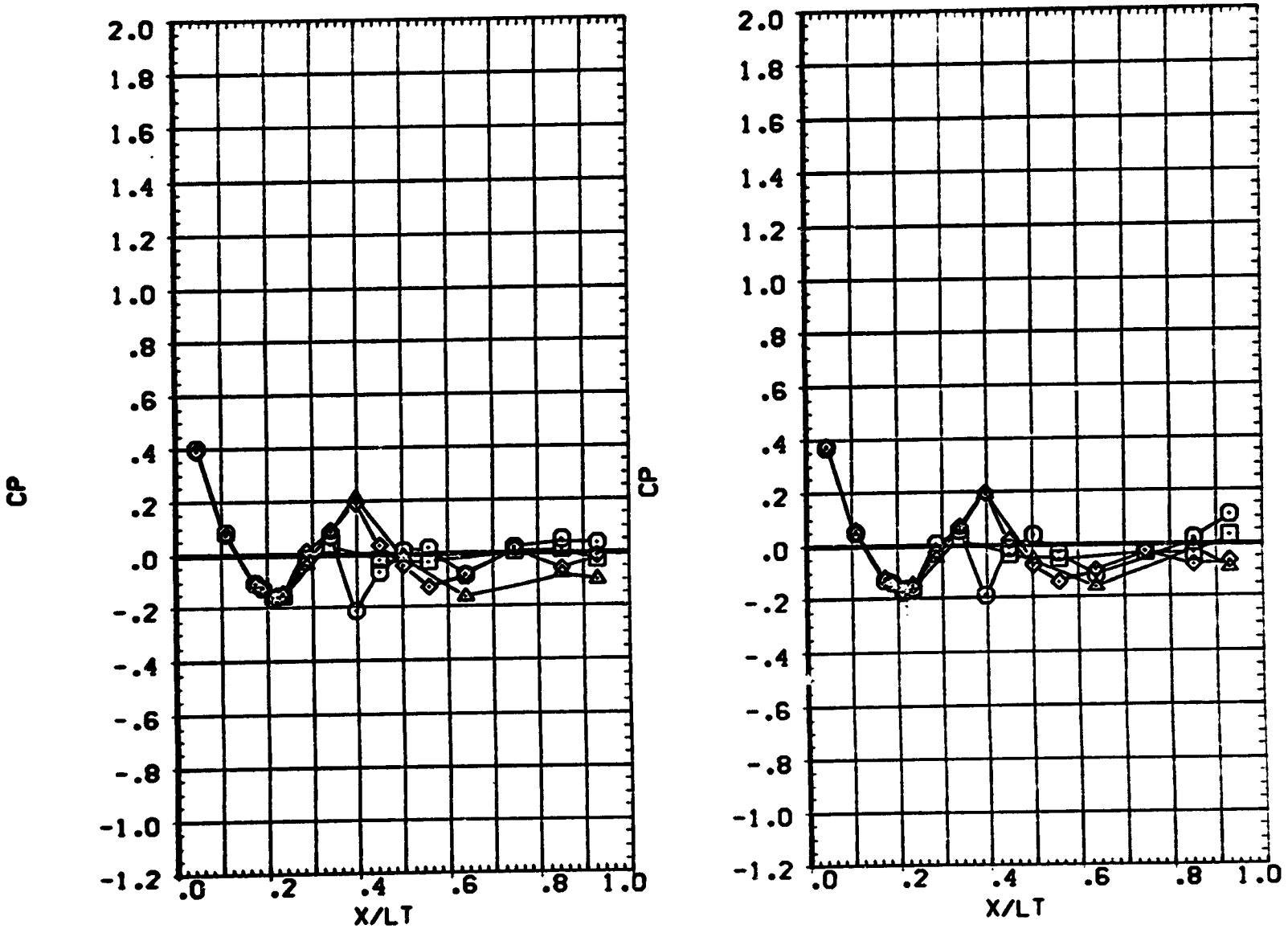
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RB0T02)

SYMBOL	PHI	BETAT	MACH
○	120.000	6.060	2.000
□	135.000	8.120	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



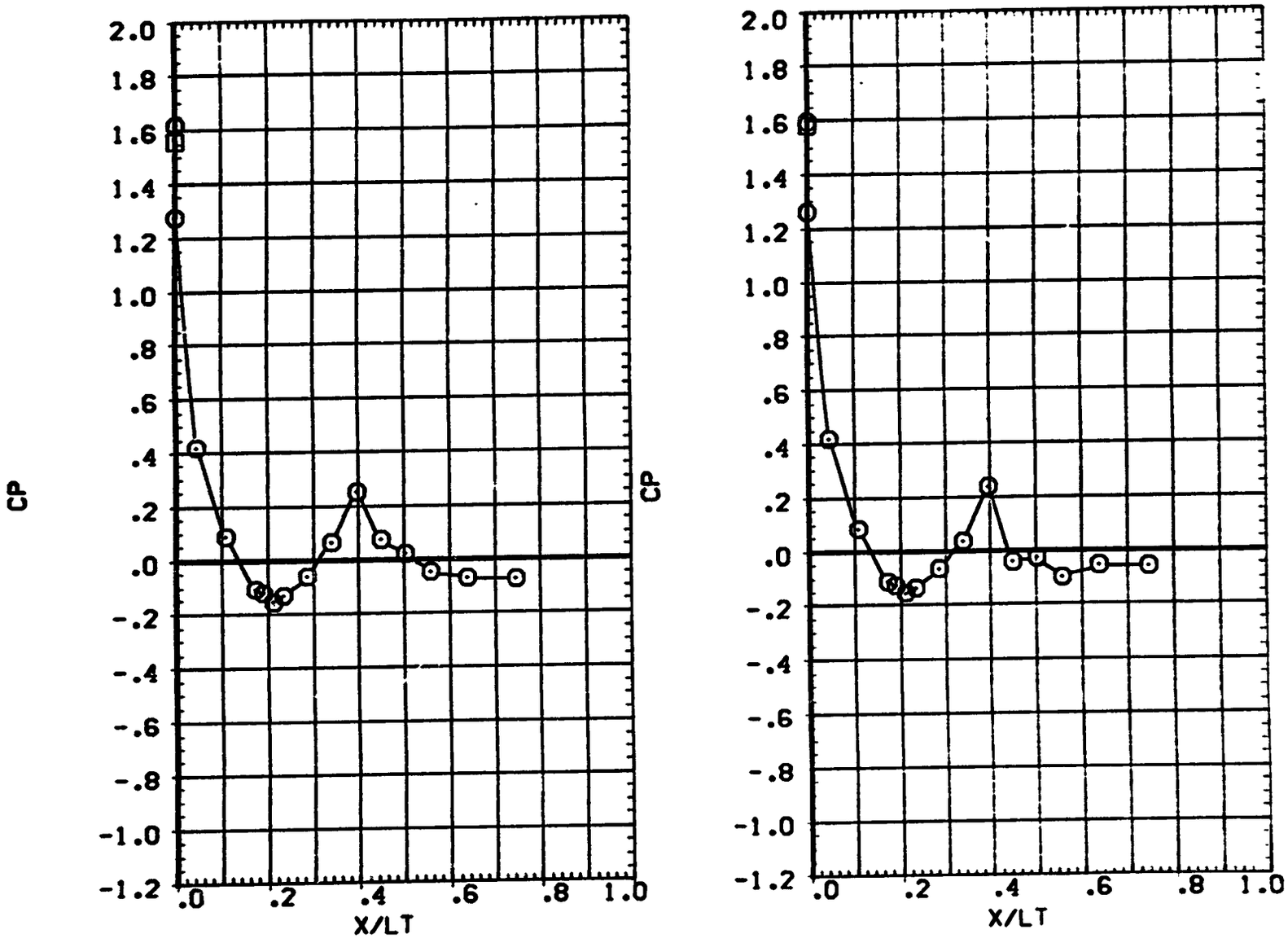
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOT02)

SYMBOL	PHI	BETAT	MACH
○	180.000	6.060	2.000
□	270.000	8.120	

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
AILER	.000		



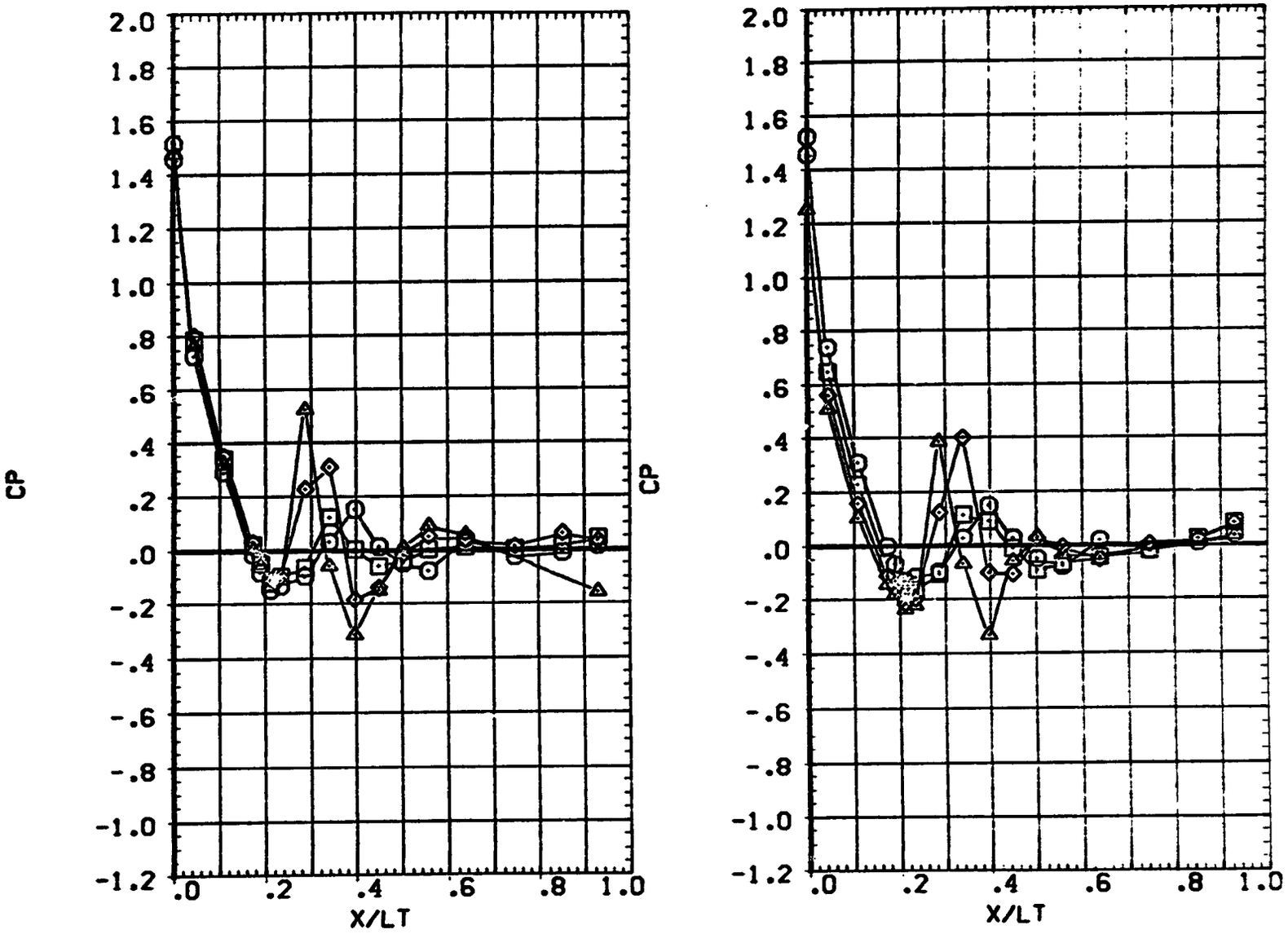
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOT04)

SYMBOL	PHI	BETAT	MACH
○	.000	-5.070	1.555
□	30.000	5.060	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	4.000	DRAG	.500
RUDDER	.000	ELEVON	.000
RUDDER	.000		



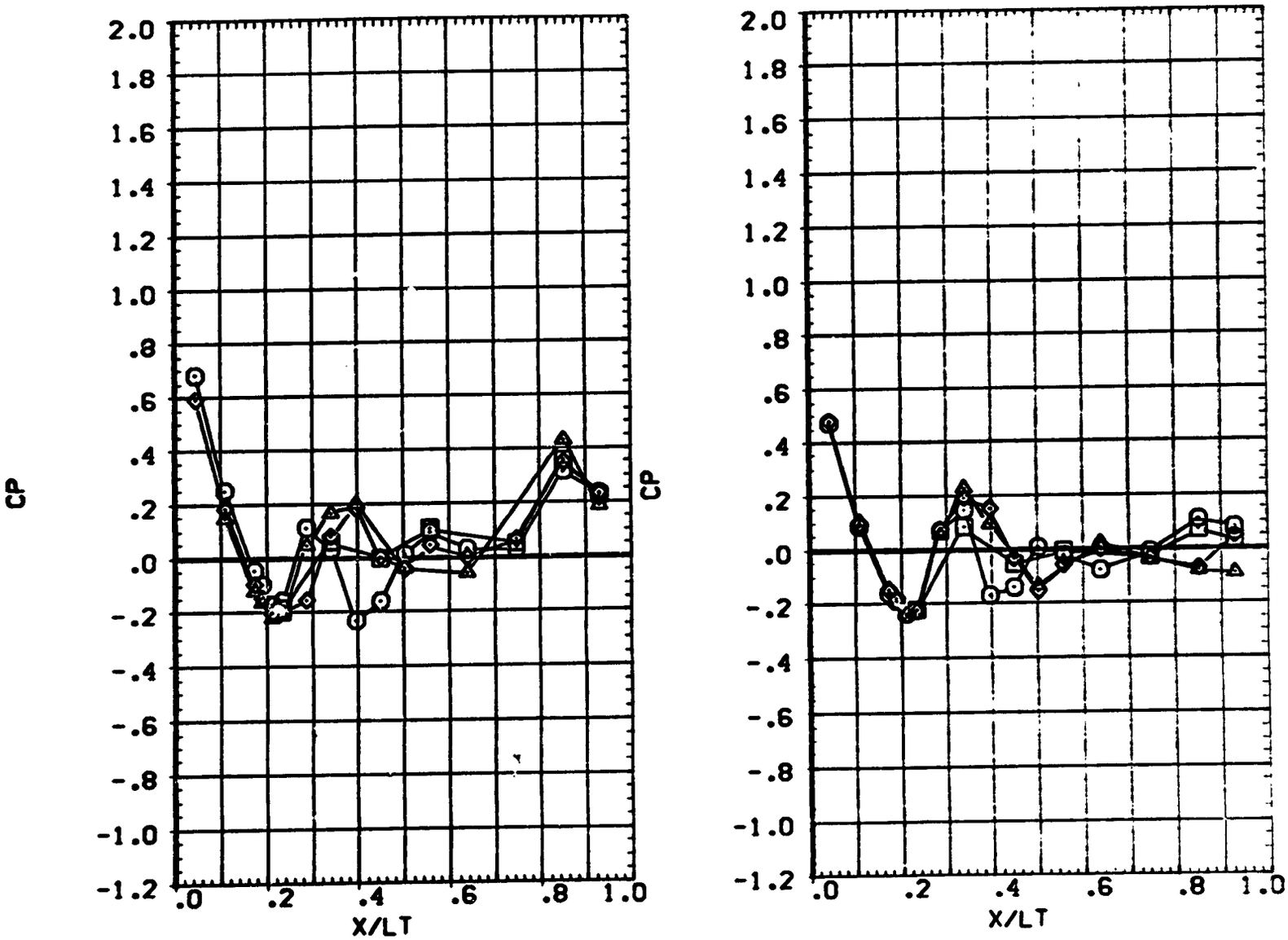
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOTO4)

SYMBOL	PHI	BETAT	MACH
○	120.000	-5.070	1.555
□	135.000	5.060	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



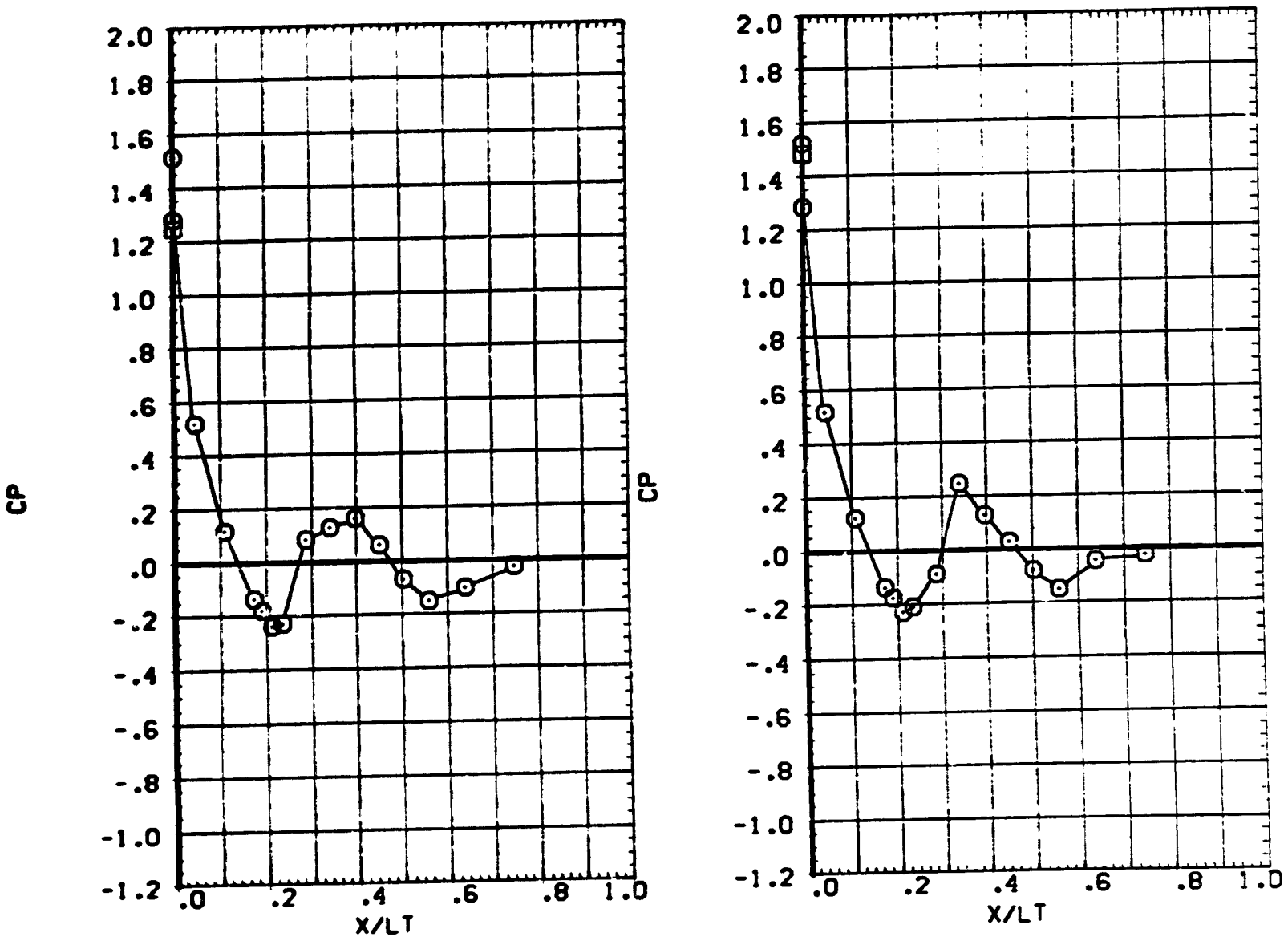
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBC*C4)

SYMBOL	PHI	BETAT	MACH
○	180.000	-5.000	1.555
□	270.000	5.000	

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



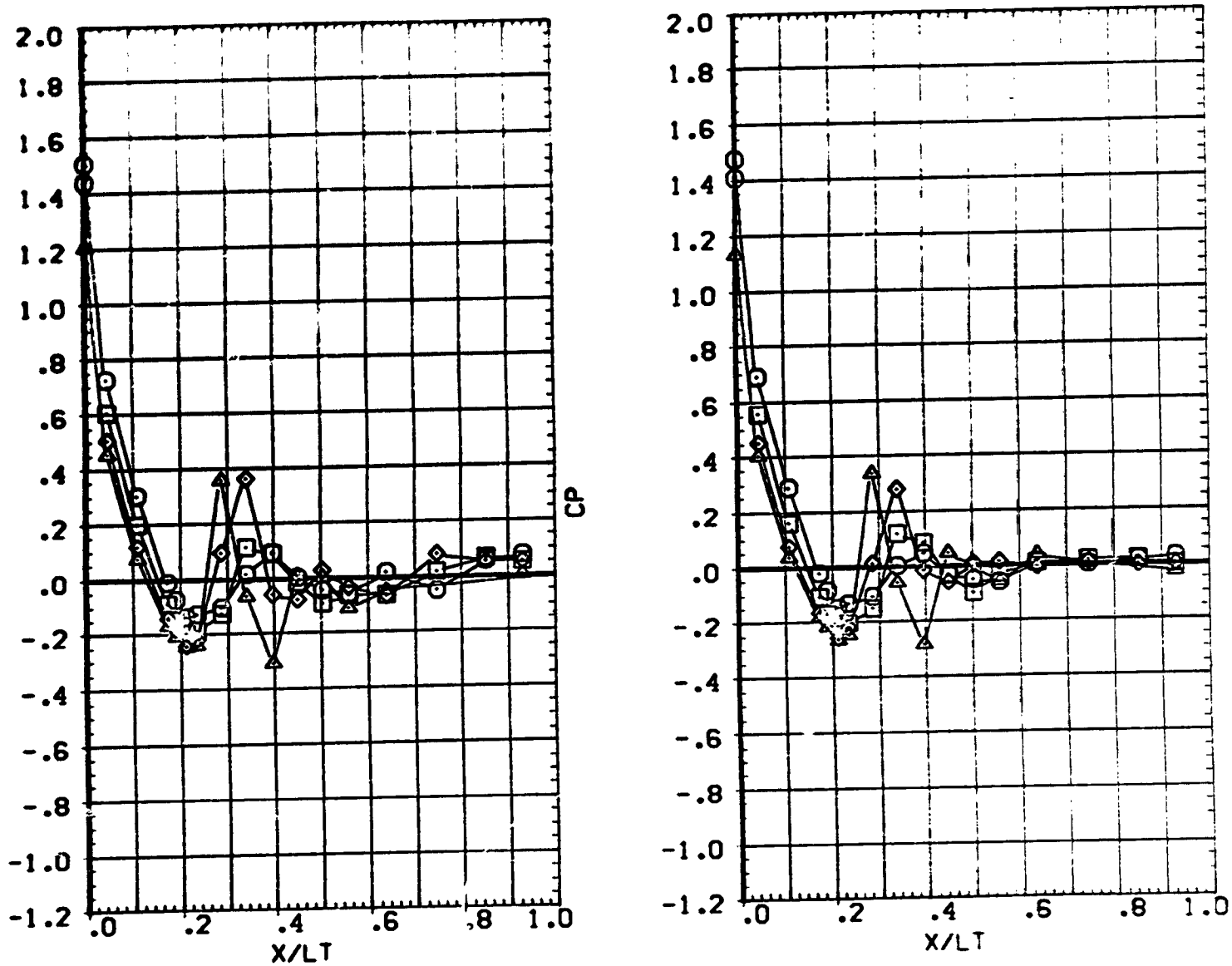
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBCTC4)

SYMBOL	PHI	BETAT	MACH
○	.000	7.080	1.555
□	30.000	9.100	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	4.000	SPRINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



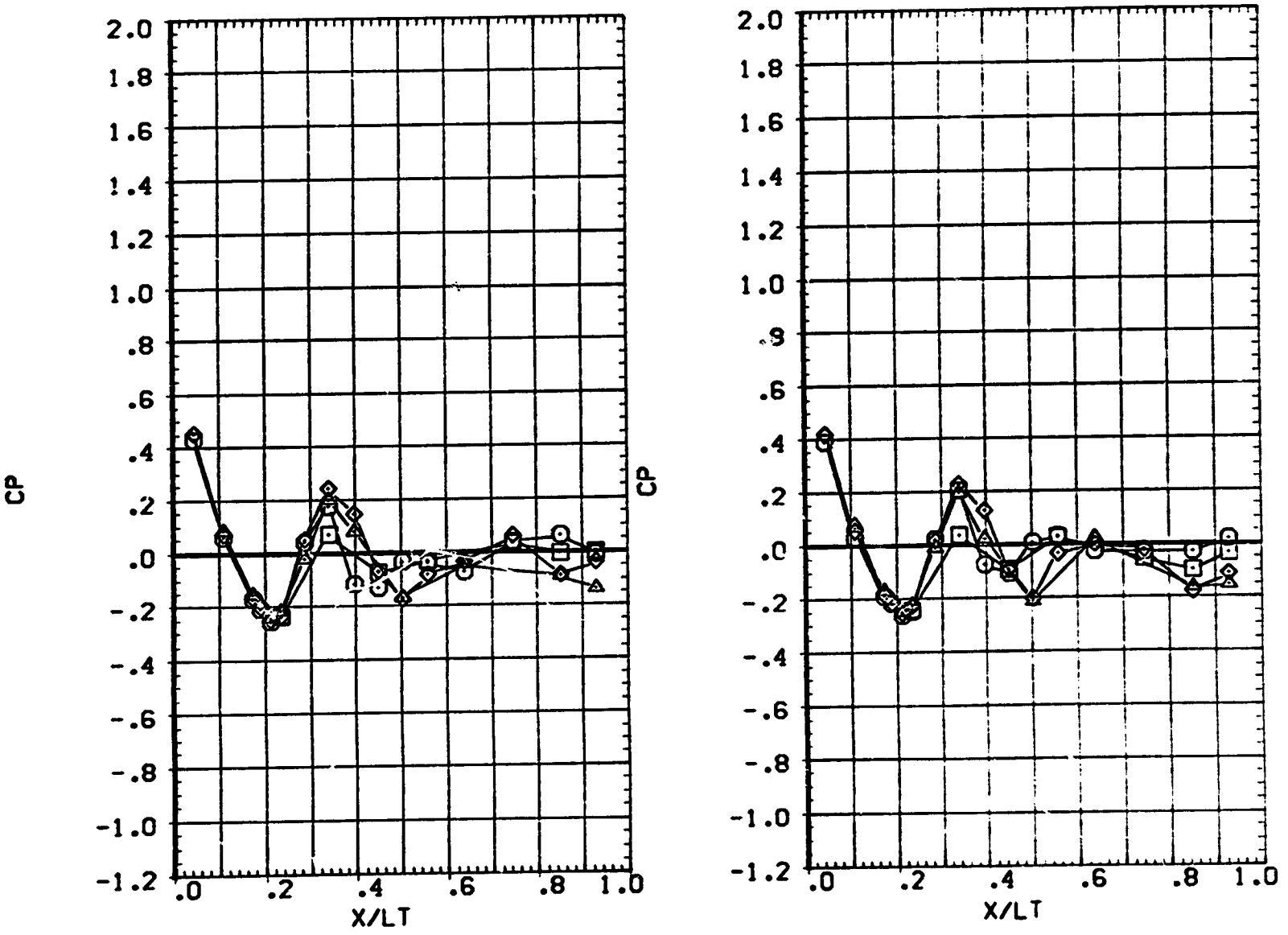
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOT04)

SYMBOL	PHI	BETAT	MACH
○	120.000	7.080	1.555
□	135.000	9.100	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

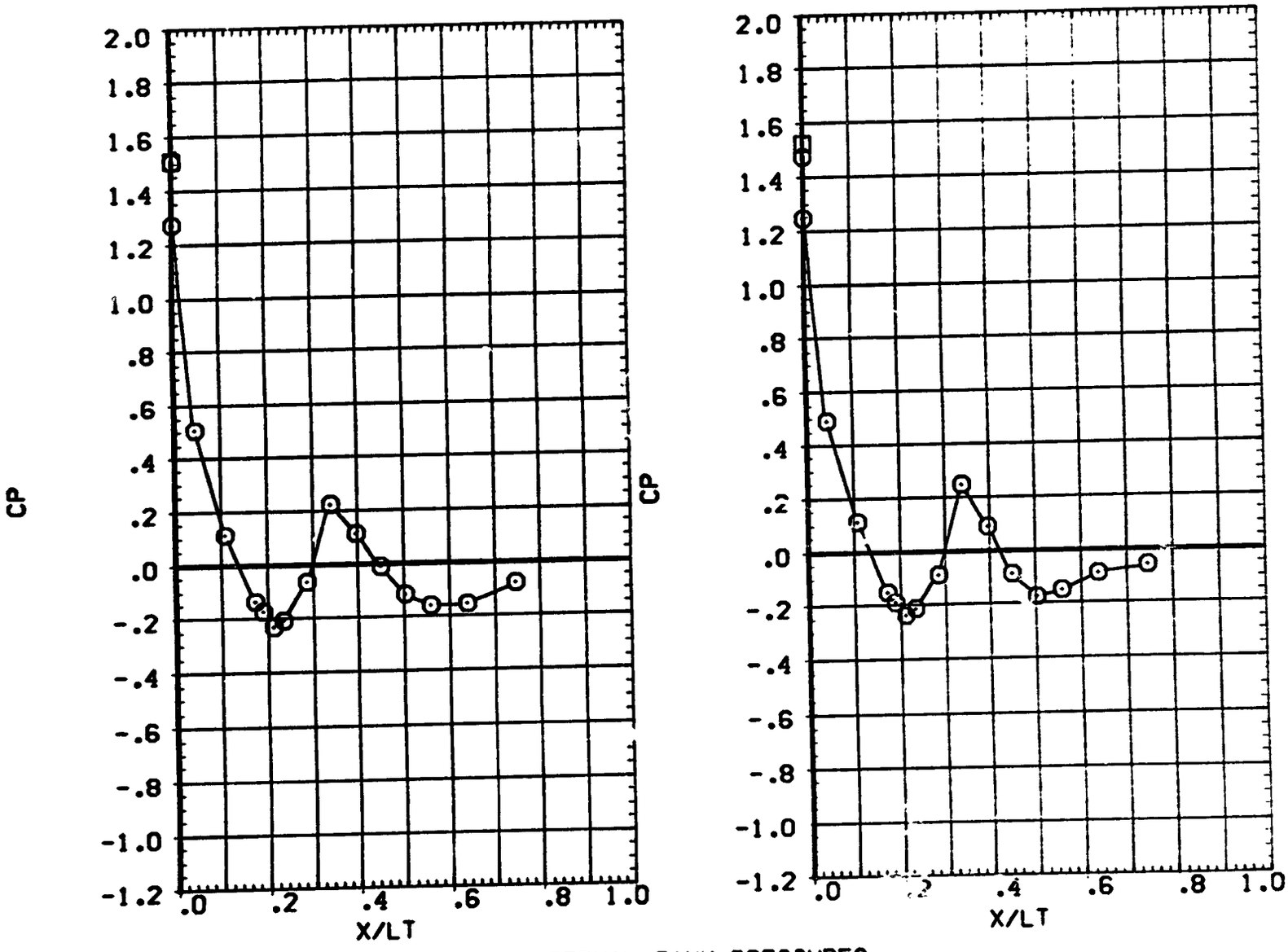
ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL	PHI	BETAT	MACH
○	180.000	7.080	1.555
□	270.000	9.100	

ALPHAT	4.000	ALPHAL	.500
RUDDER	.000	ELEVON	.000
ROLLER	.000		



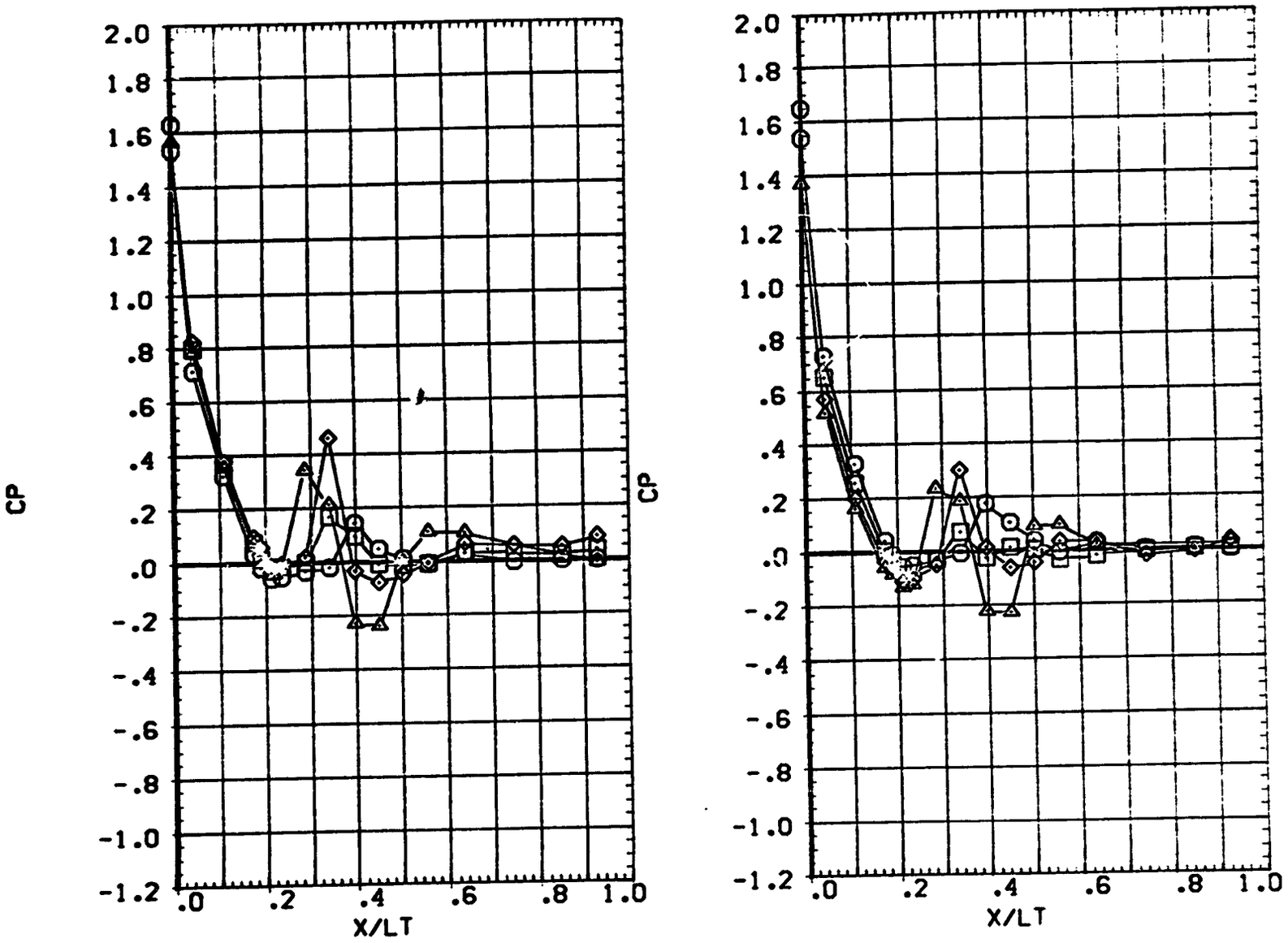
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBOT04)

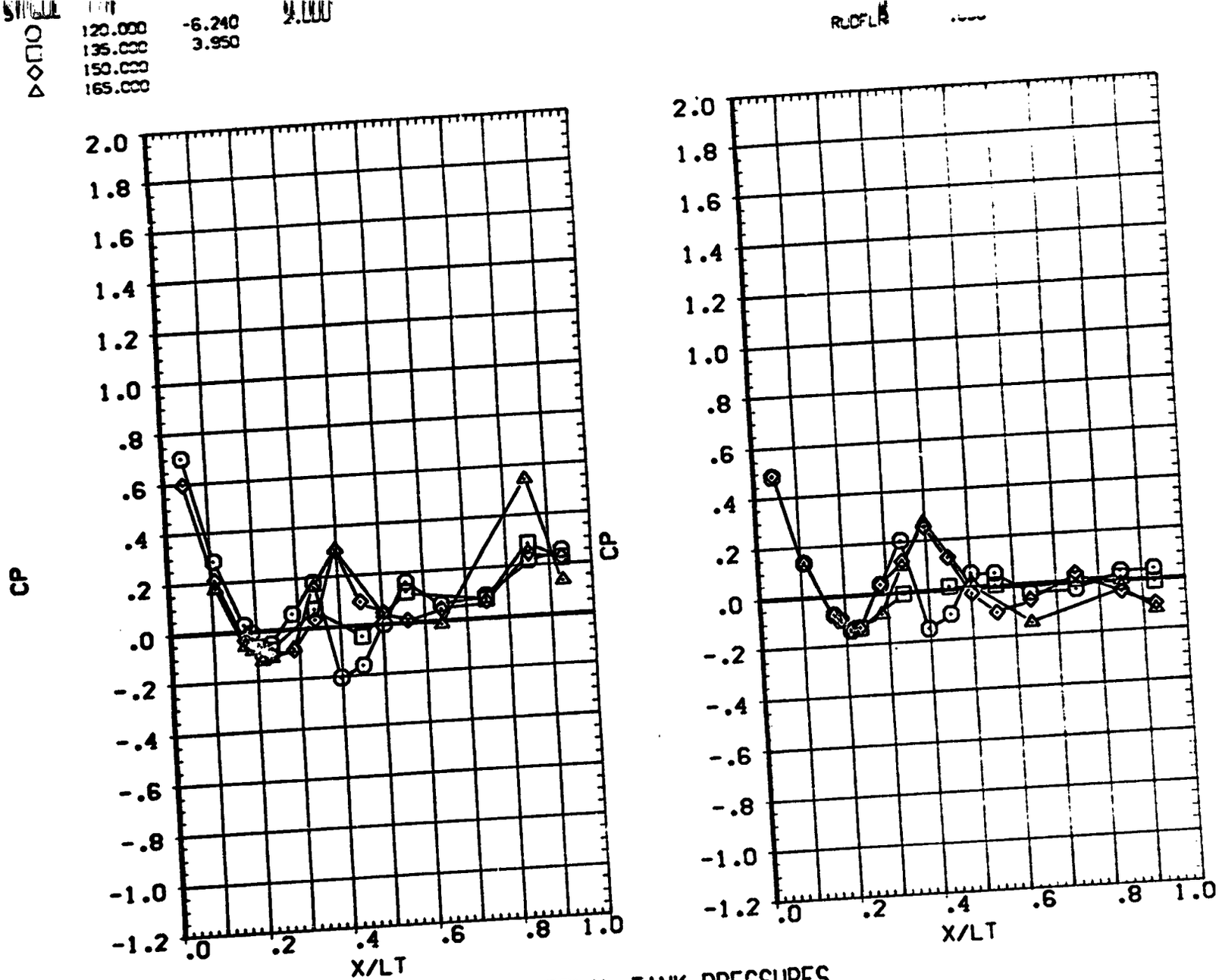
SYMBOL	PHI	BETAT	MACH
○	.000	-6.240	2.000
□	30.000	3.950	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	4.000	DBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



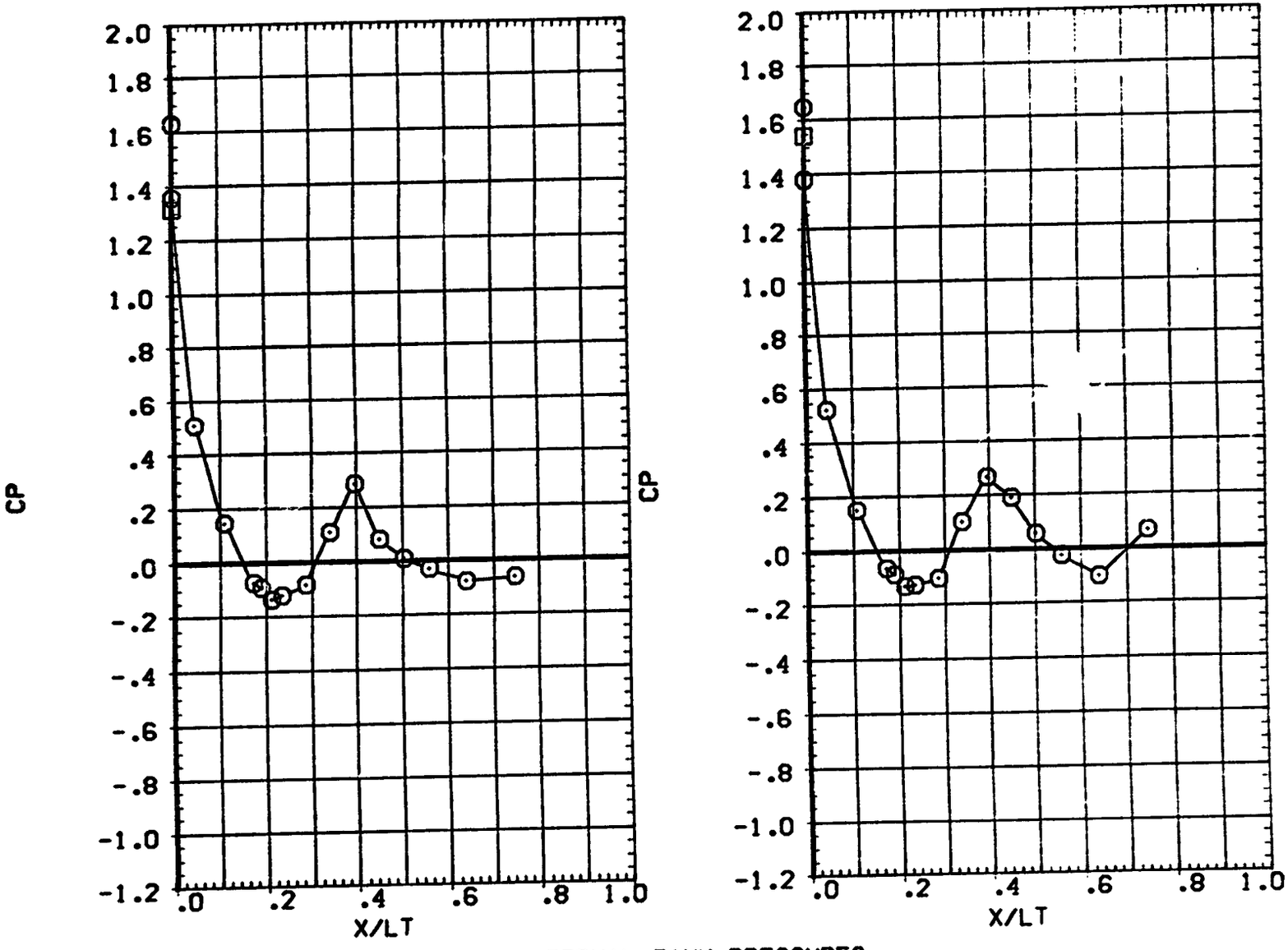
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOT04)

SYMBOL	PHI	BETAT	MACH
○	180.000	-6.240	2.000
□	270.000	3.050	

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



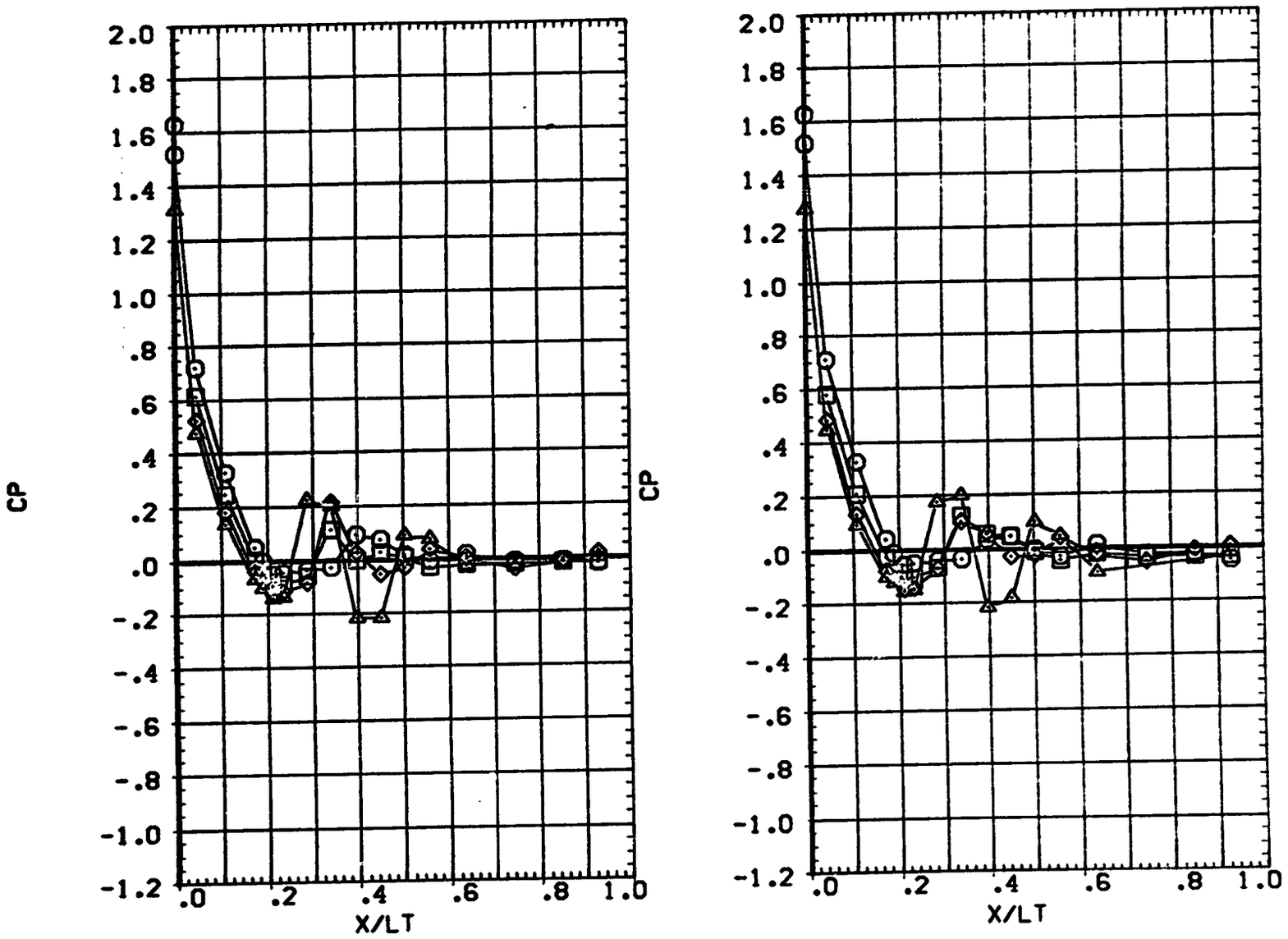
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOTO4)

SYMBOL	PHI	BETAT	MACH
○	.000	5.990	2.000
□	30.000	8.030	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



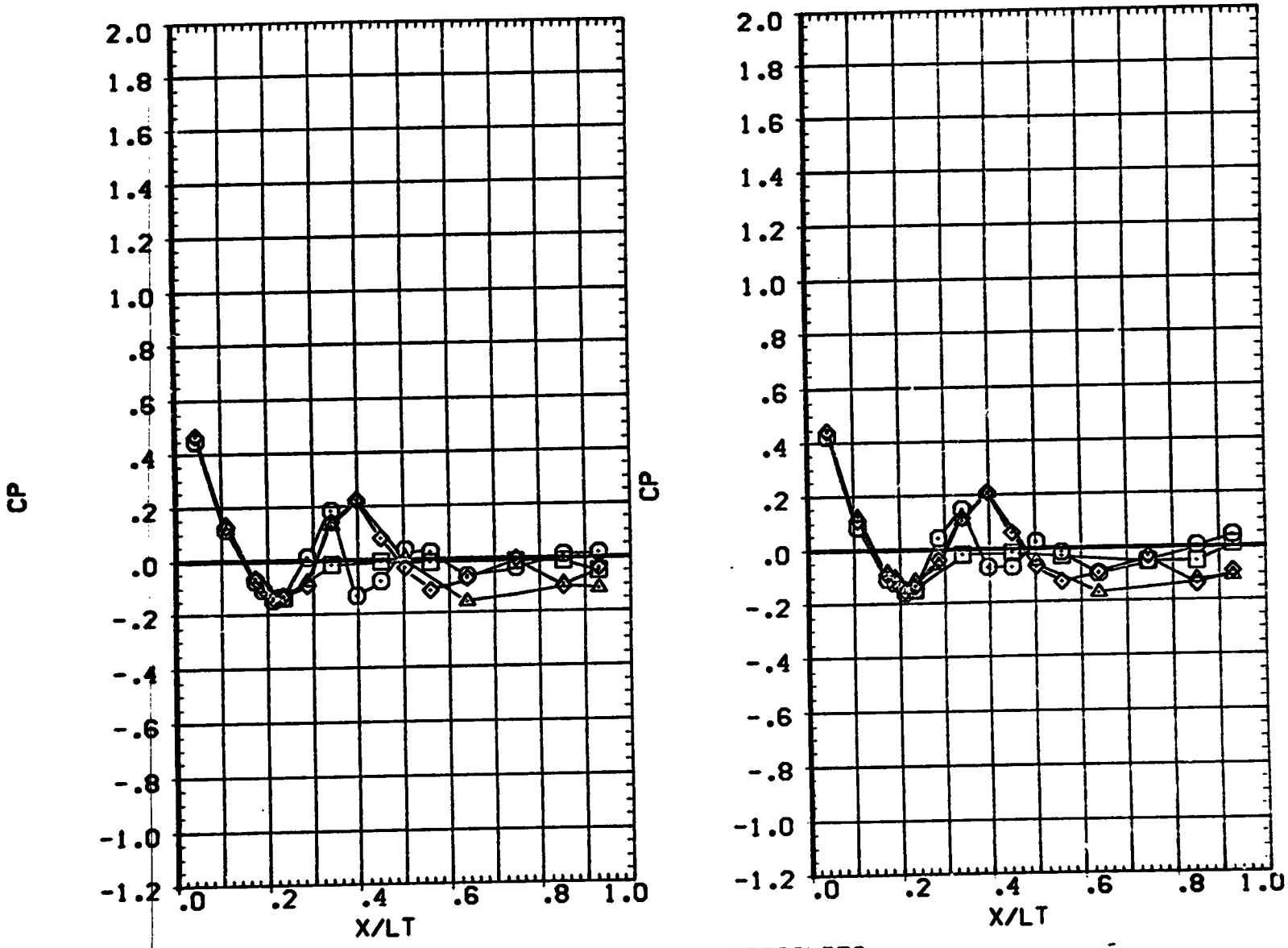
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOT04)

SYMBOL	PHI	BETAT	MACH
○	120.000	5.990	2.000
□	135.000	8.030	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

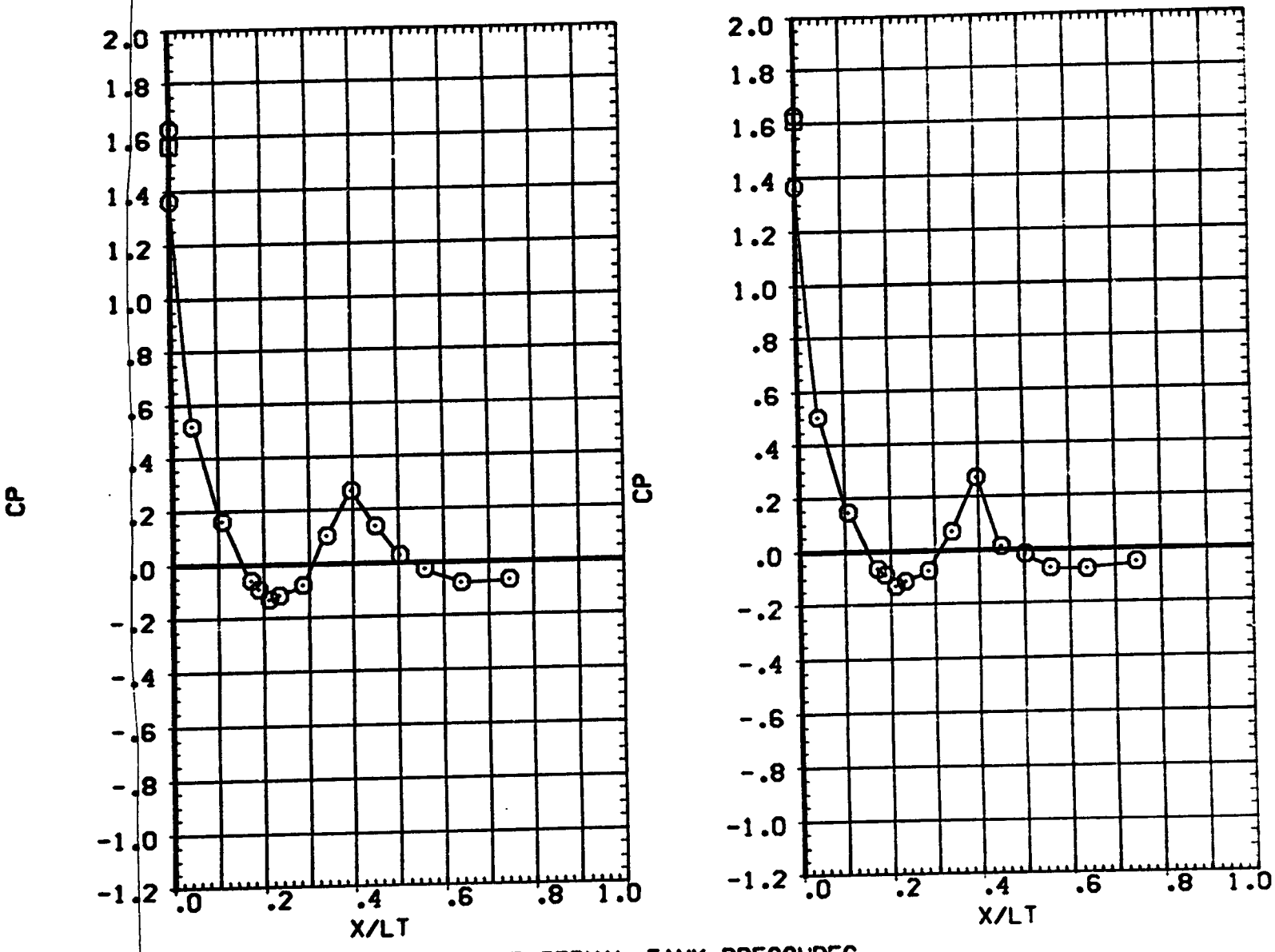


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL	PHI	BETAT	MACH
○	180.000	5.990	2.000
□	270.000	8.030	

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



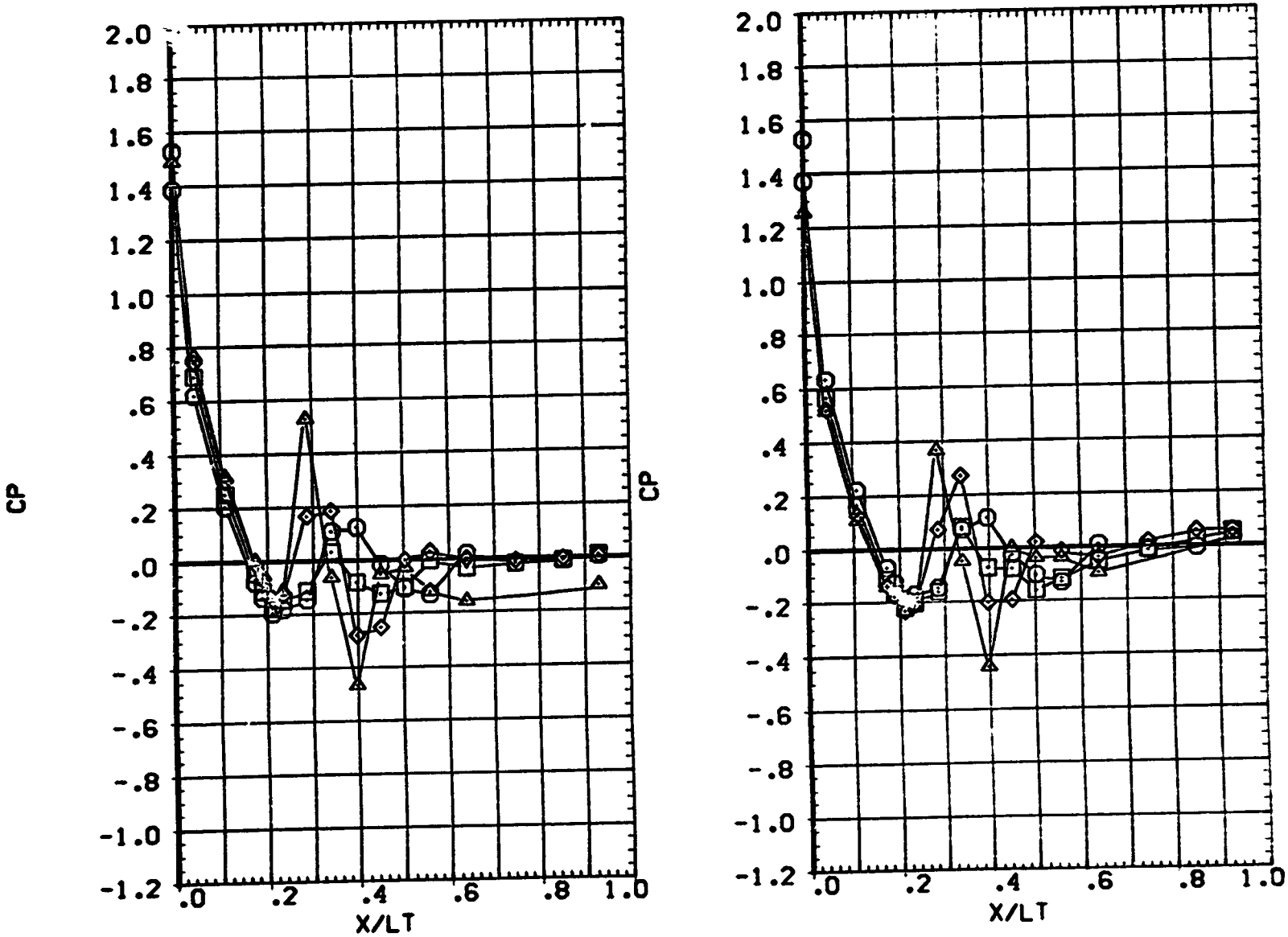
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBCT06)

SYMBOL	PHI	BETAT	MACH
○	.000	-5.080	1.555
□	30.000	5.050	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



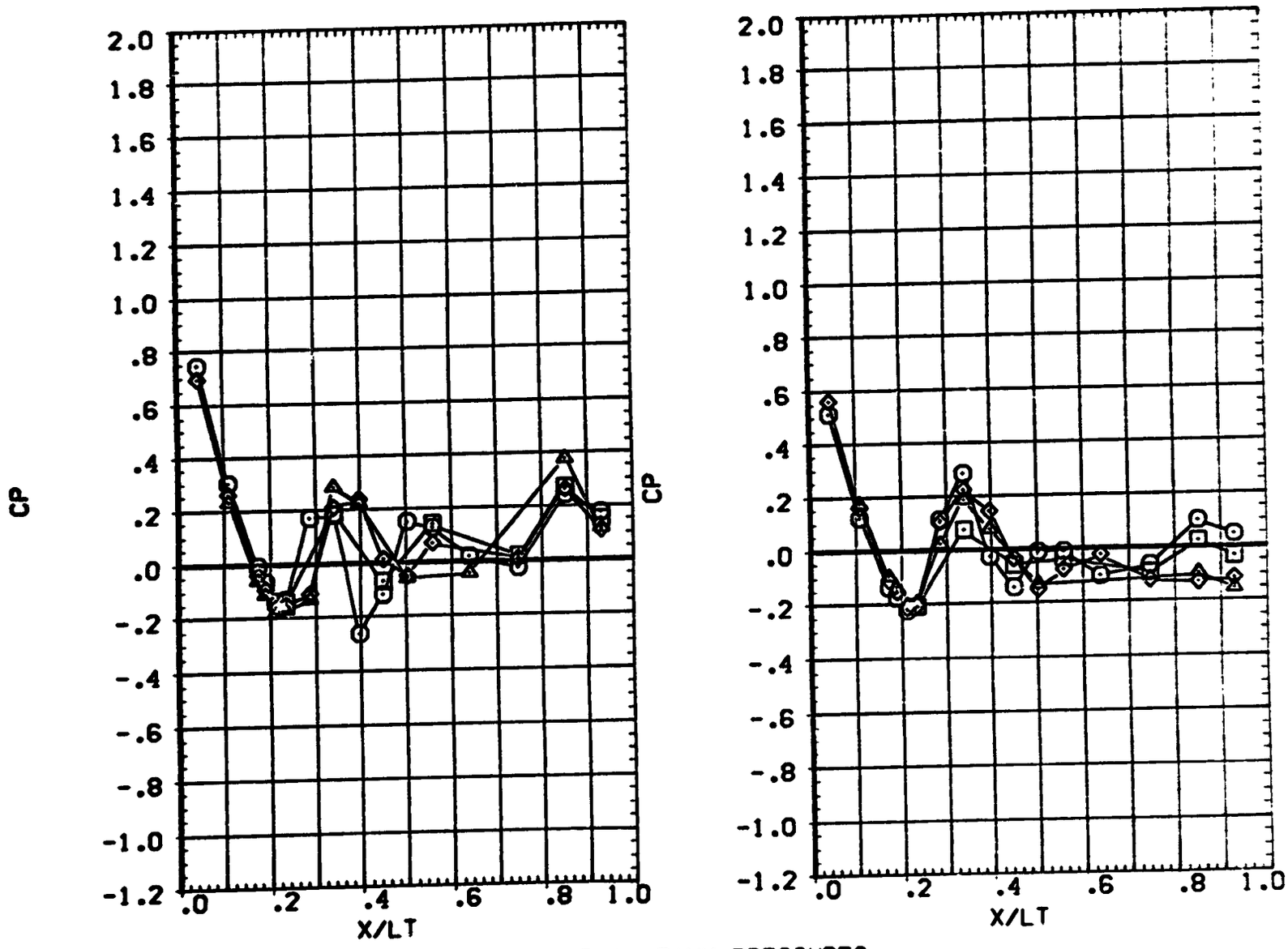
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOT06)

SYMBOL	PHI	BETAT	MACH
○	120.000	-5.080	1.555
□	135.000	5.050	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



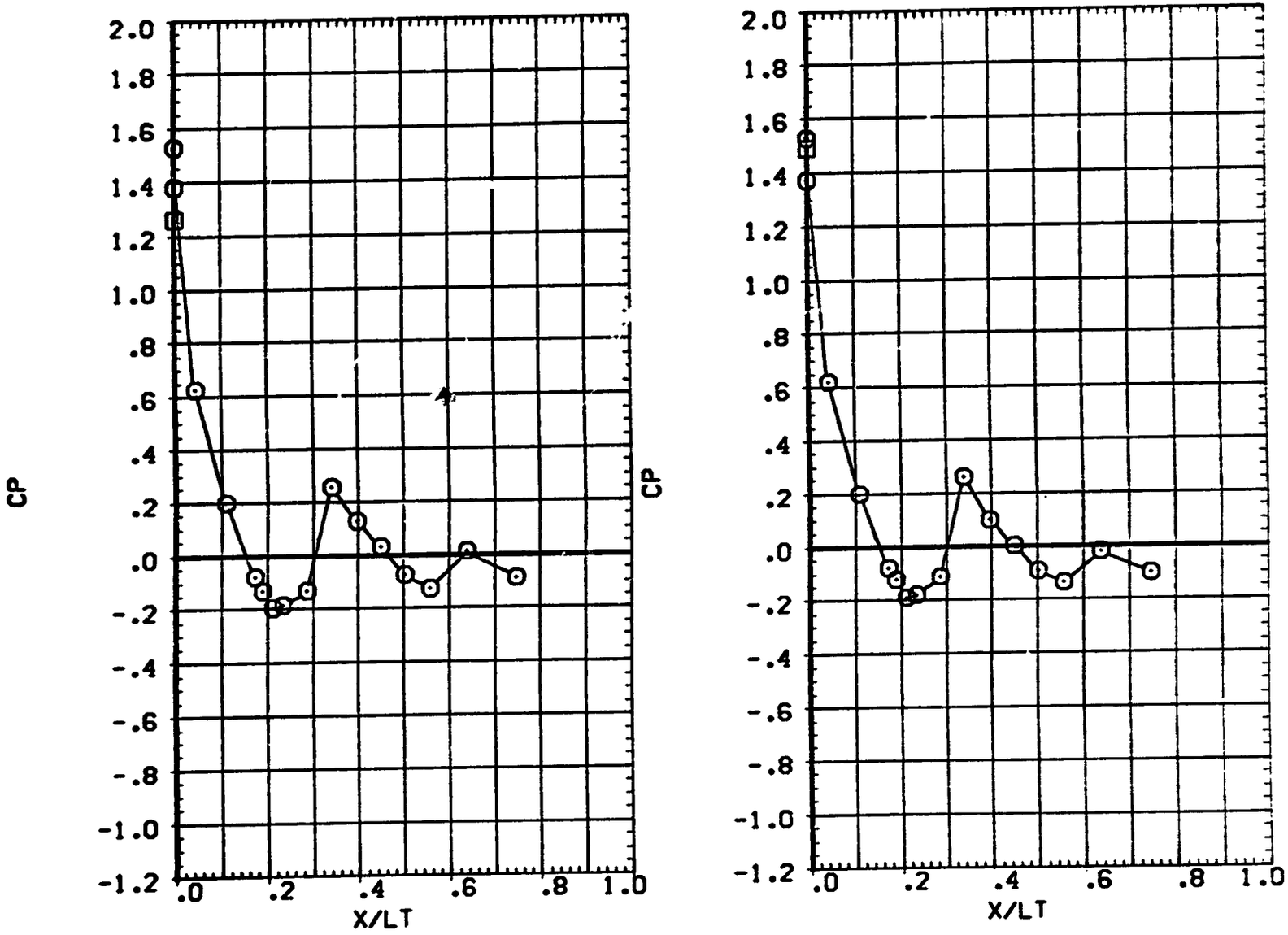
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RB0T06)

SYMBOL	PHI	BETAT	MACH
○	180.000	-5.080	1.555
□	270.000	5.050	

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



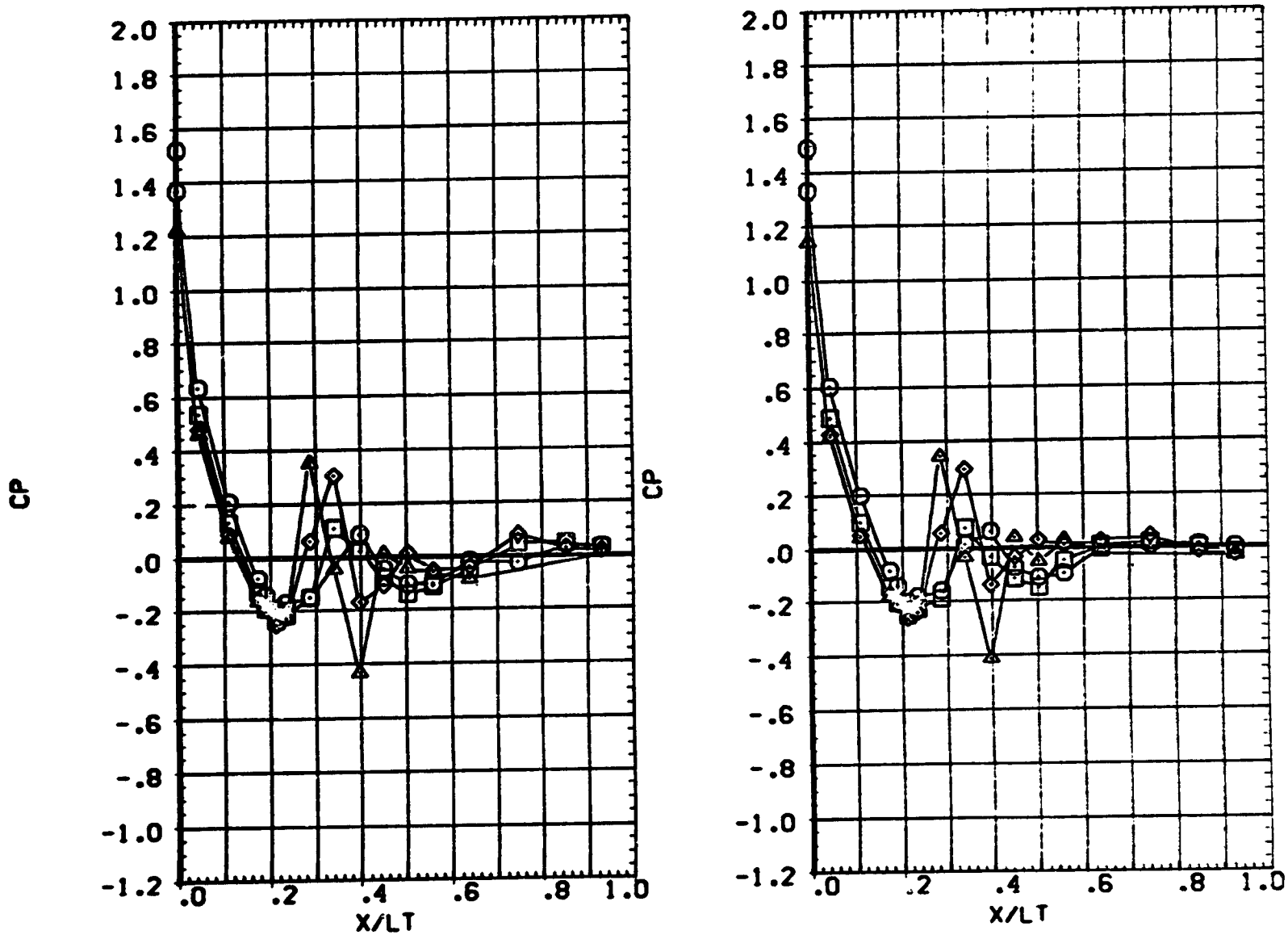
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBCT06)

SYMBOL	PHI	BETAT	MACH
○	.000	7.060	1.555
□	30.000	9.090	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



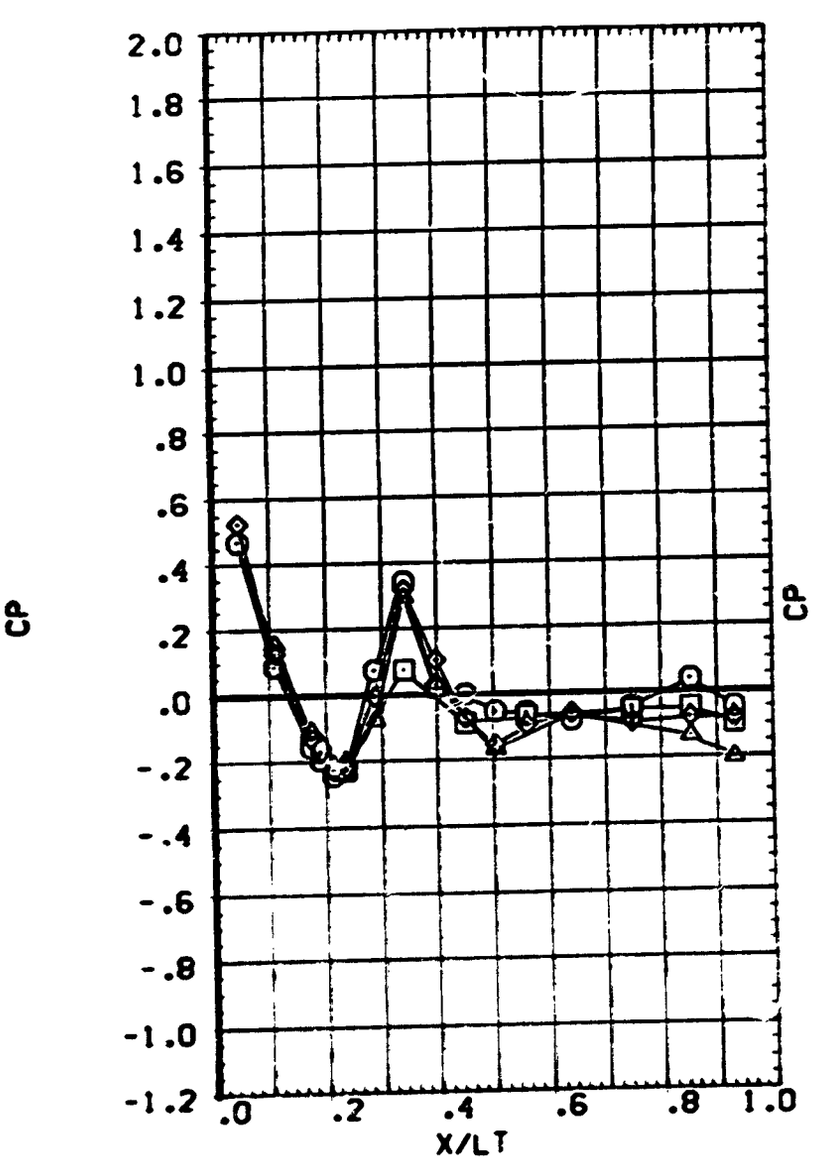
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

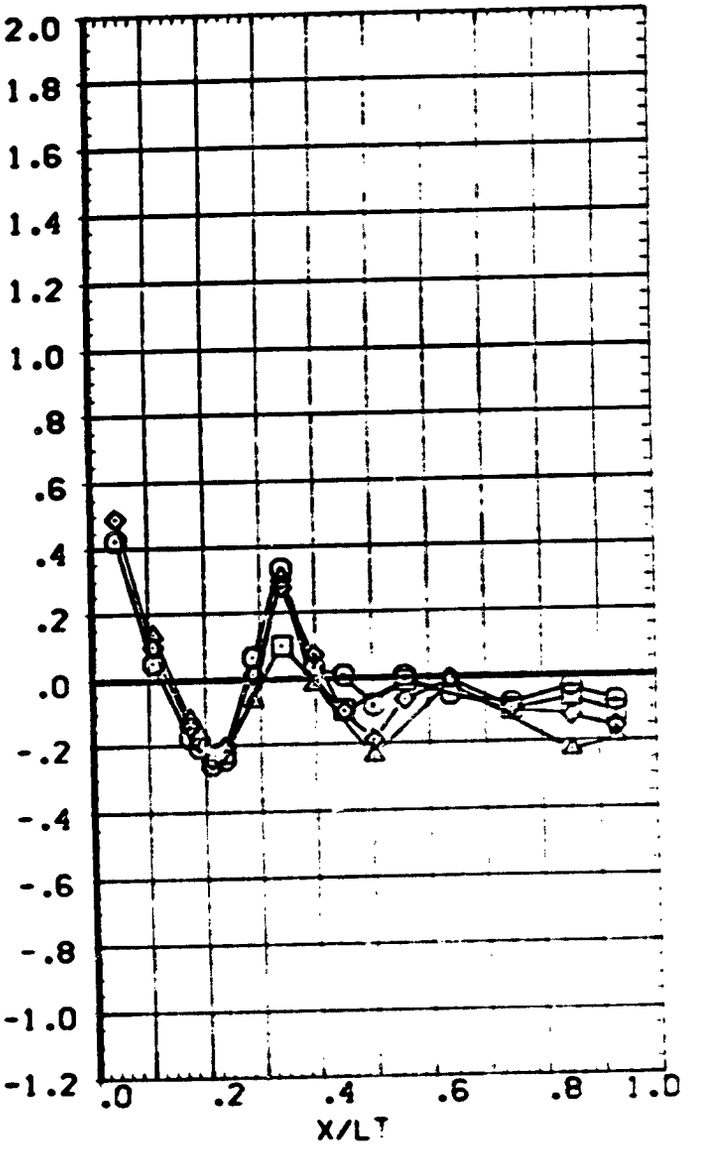
AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOT06)

SYMBOL	PHI	BETAT	MACH
○	120.000	7.060	1.555
□	135.000	9.090	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	.000	SPEING	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		





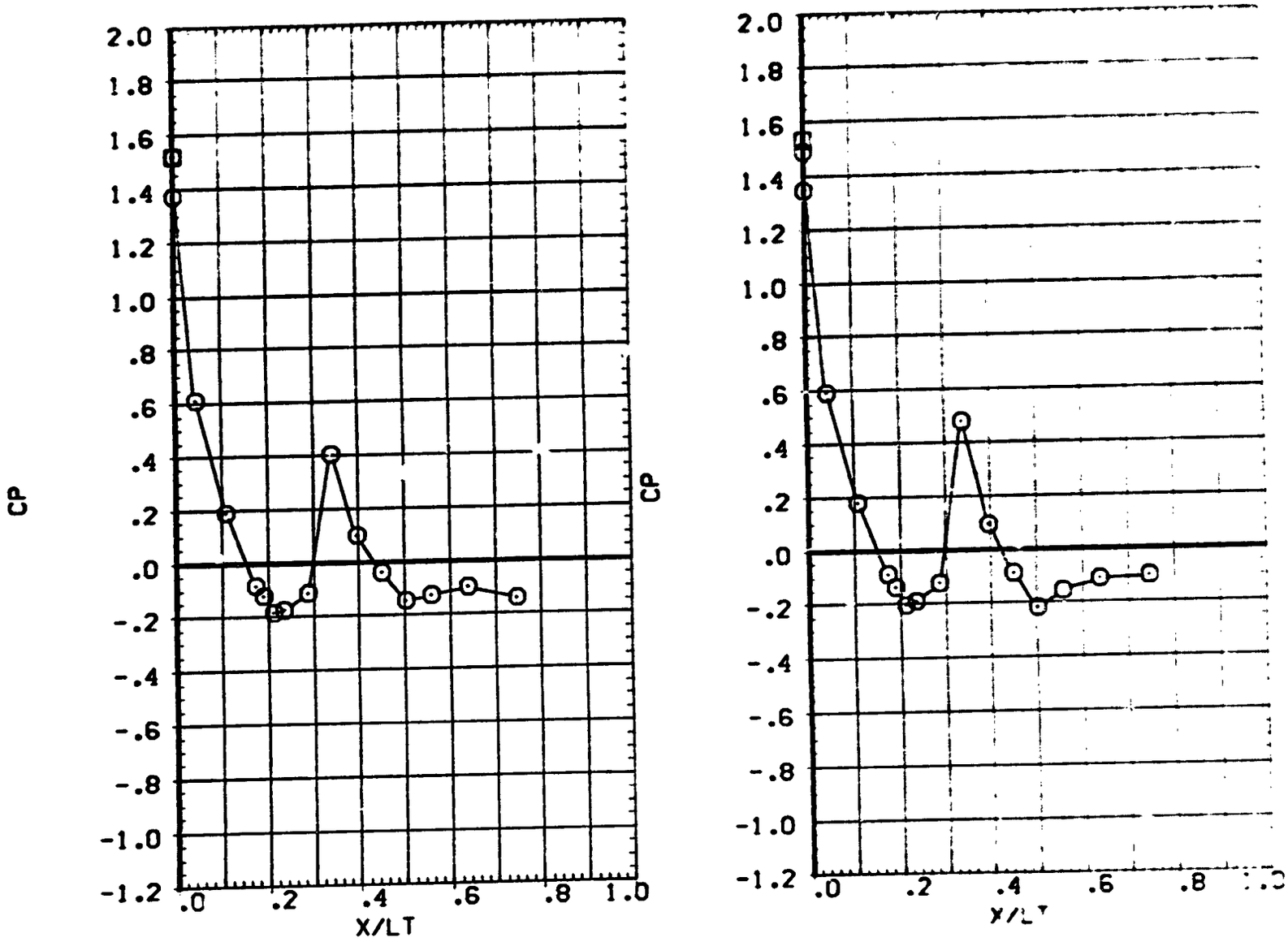
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBCT06)

SYMBOL	PHI	BETAT	MACH
○	180.000	7.060	1.553
□	270.000	9.090	

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	FLEVON	.000
RUDFLR	.000		



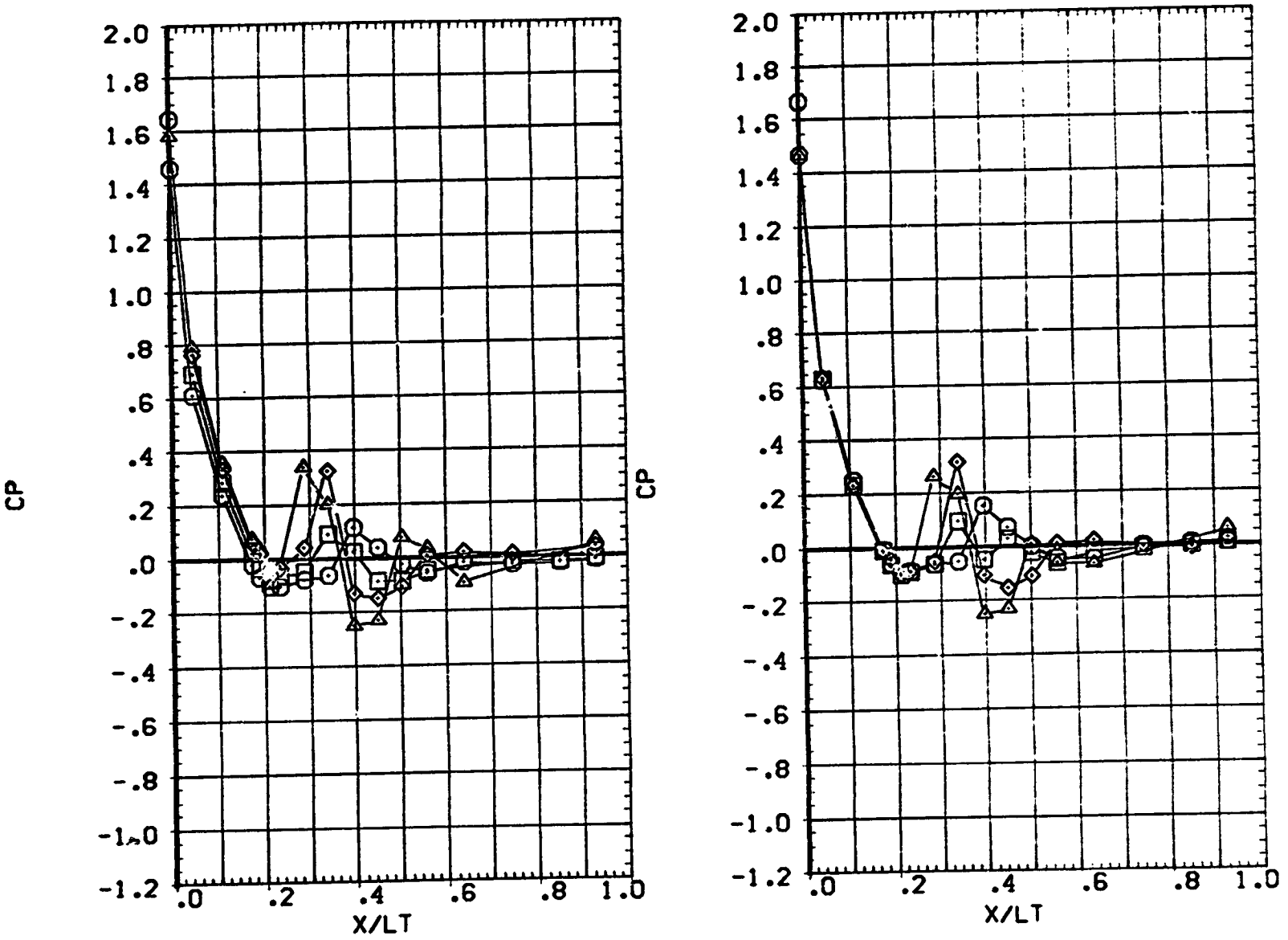
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOTO6)

SYMBOL	PHI	BETAT	MACH
○	.000	-6.250	2.000
□	30.000	-.130	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

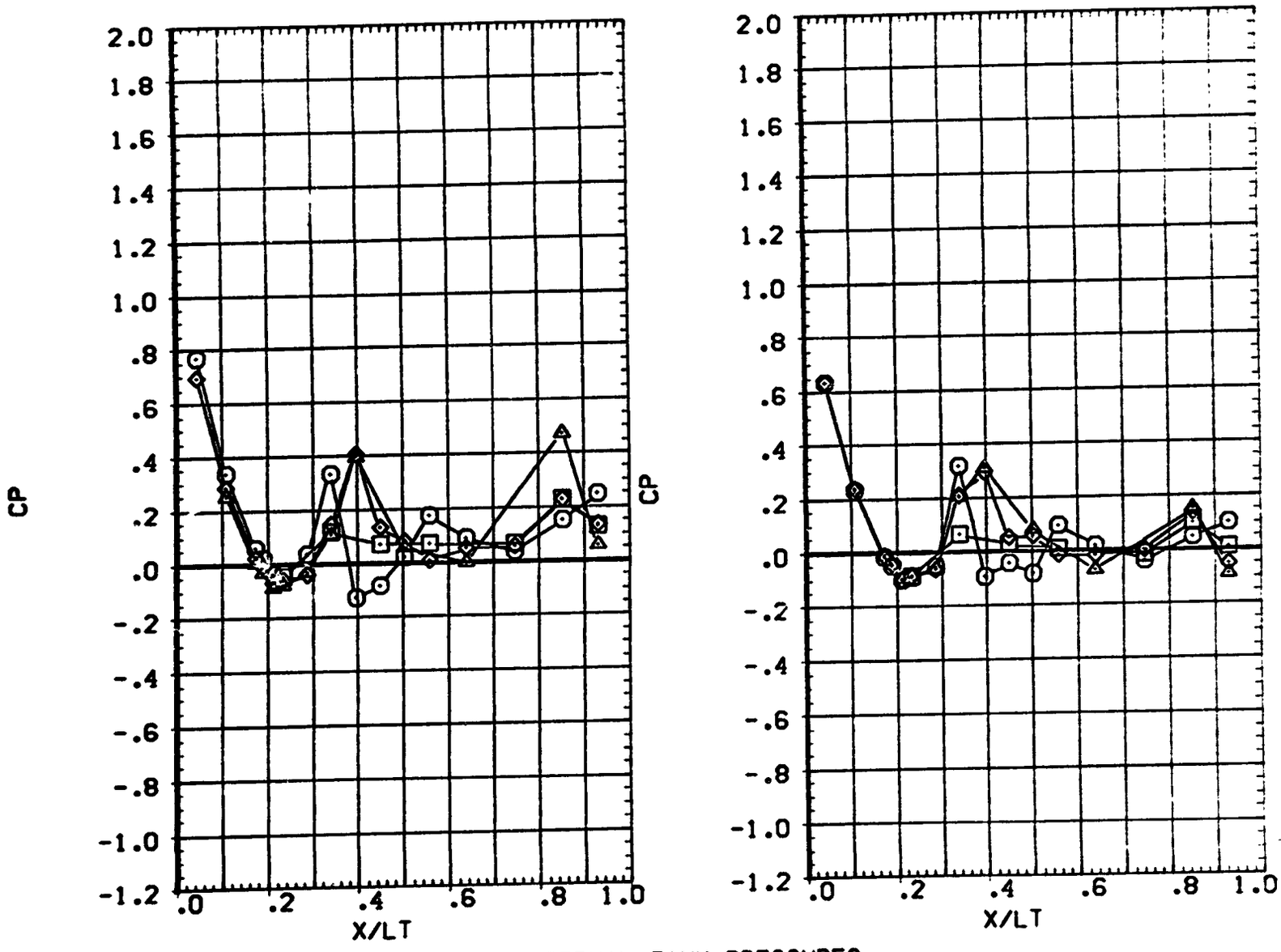


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL	PHI	BETAT	MACH
○	120.000	-6.250	2.000
□	135.000	-.130	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



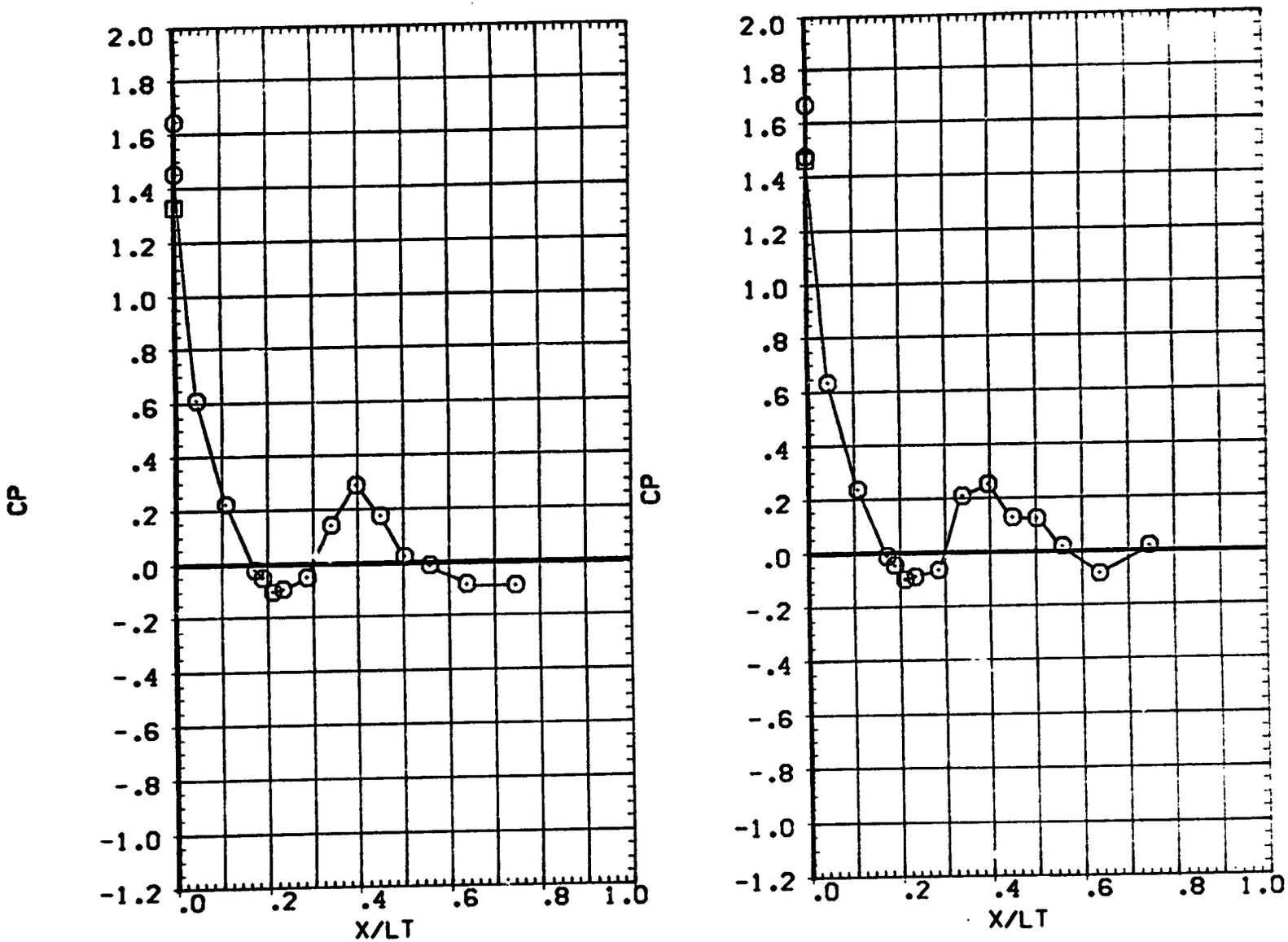
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RB0T06)

SYMBOL	PHI	BETAT	MACH
○	180.000	-6.250	2.000
□	270.000	-.130	

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



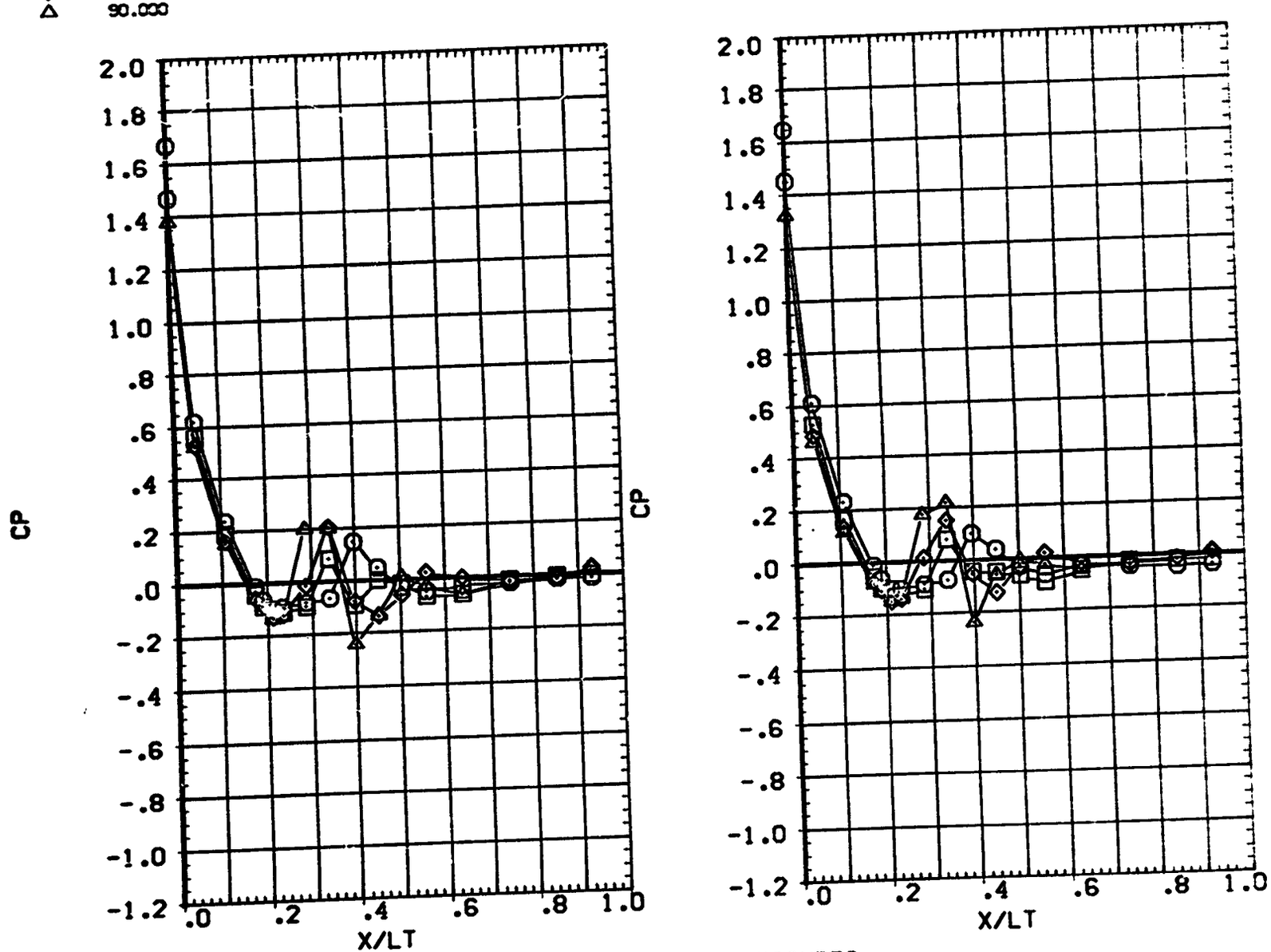
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + 33 + 15 ENTG

SYMBOL	PHI	BETAT	MACH
○	.000	3.950	2.000
□	30.000	5.980	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



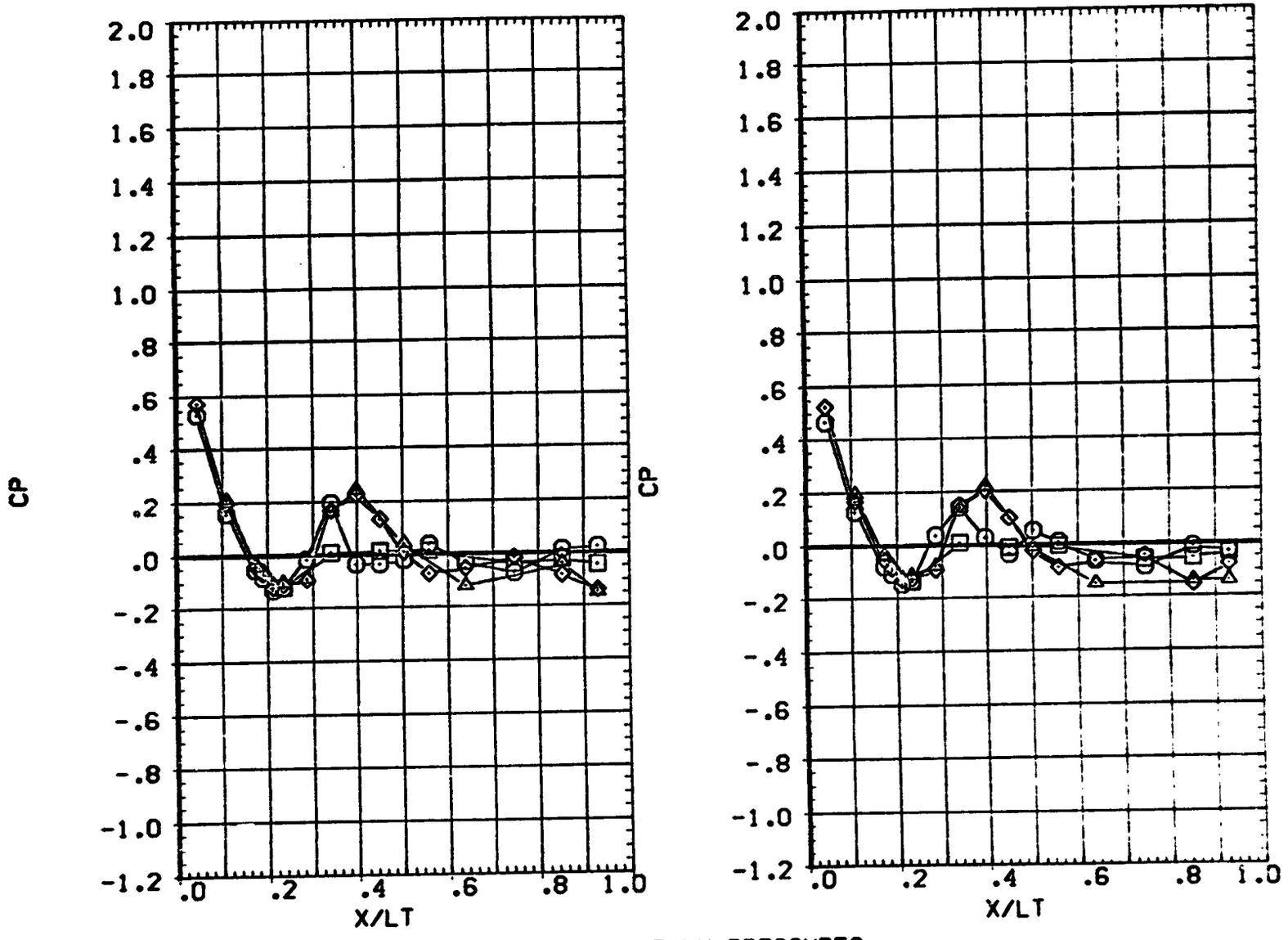
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOT06)

SYMBOL	PHI	BETAT	MACH
○	120.000	3.950	2.000
□	135.000	5.980	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	.000	SPRINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



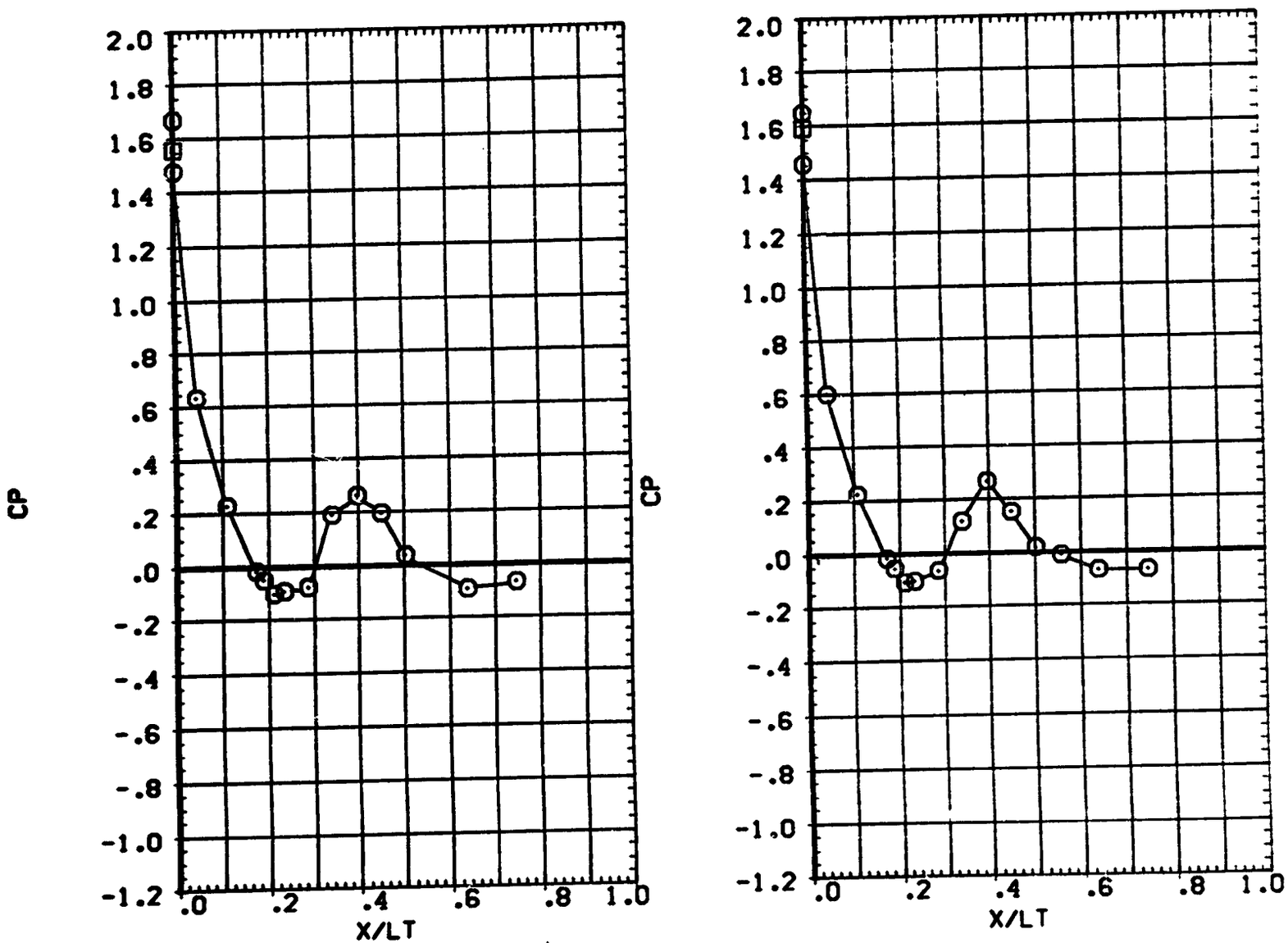
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RB0T06)

SYMBOL	PHI	BETAT	MACH
○	180.000	3.950	2.000
□	270.000	5.980	

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



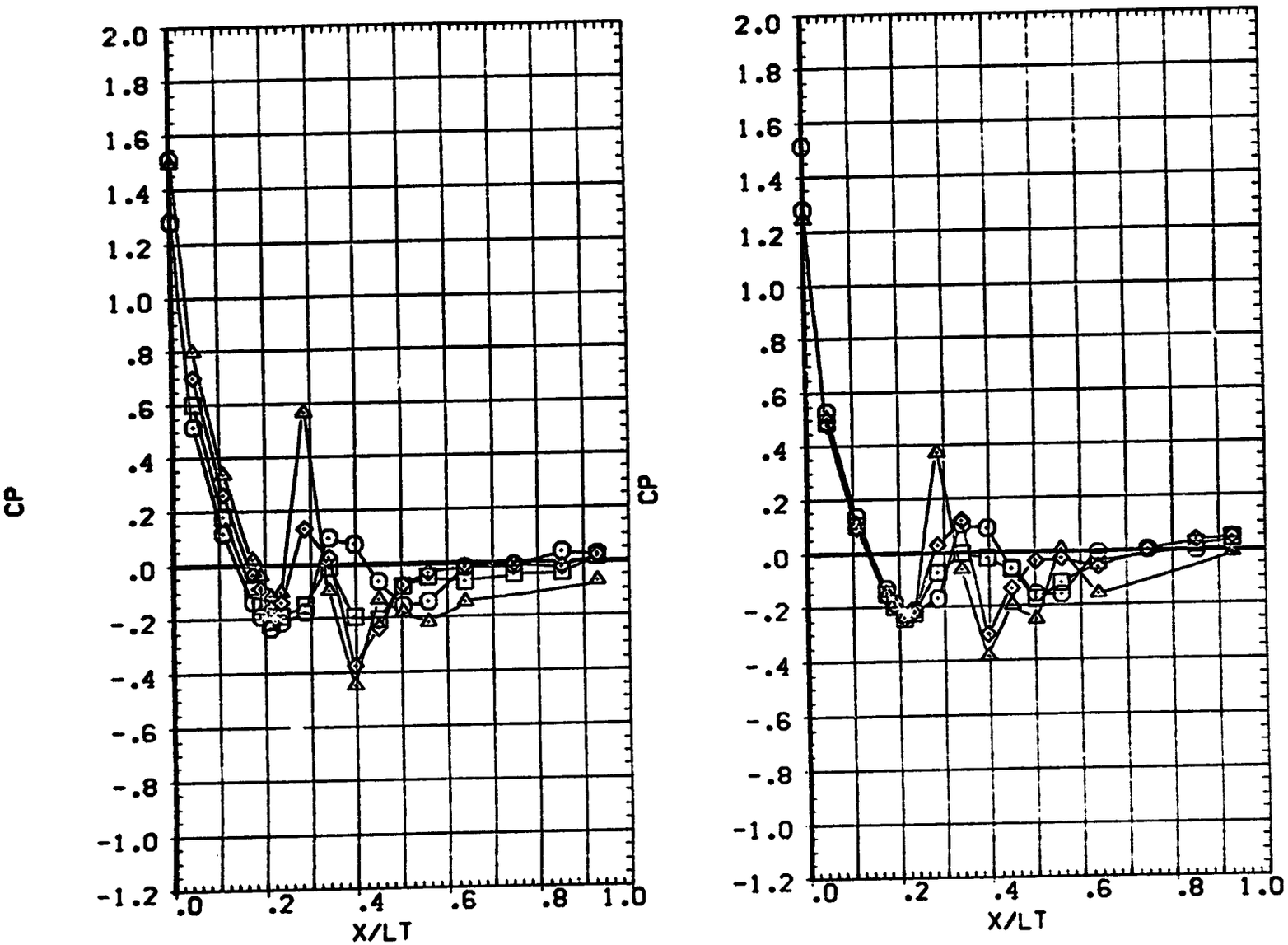
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOT08)

SYMBOL	PHI	BETAT	MACH
○	.000	-6.150	1.555
□	30.000	5.030	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

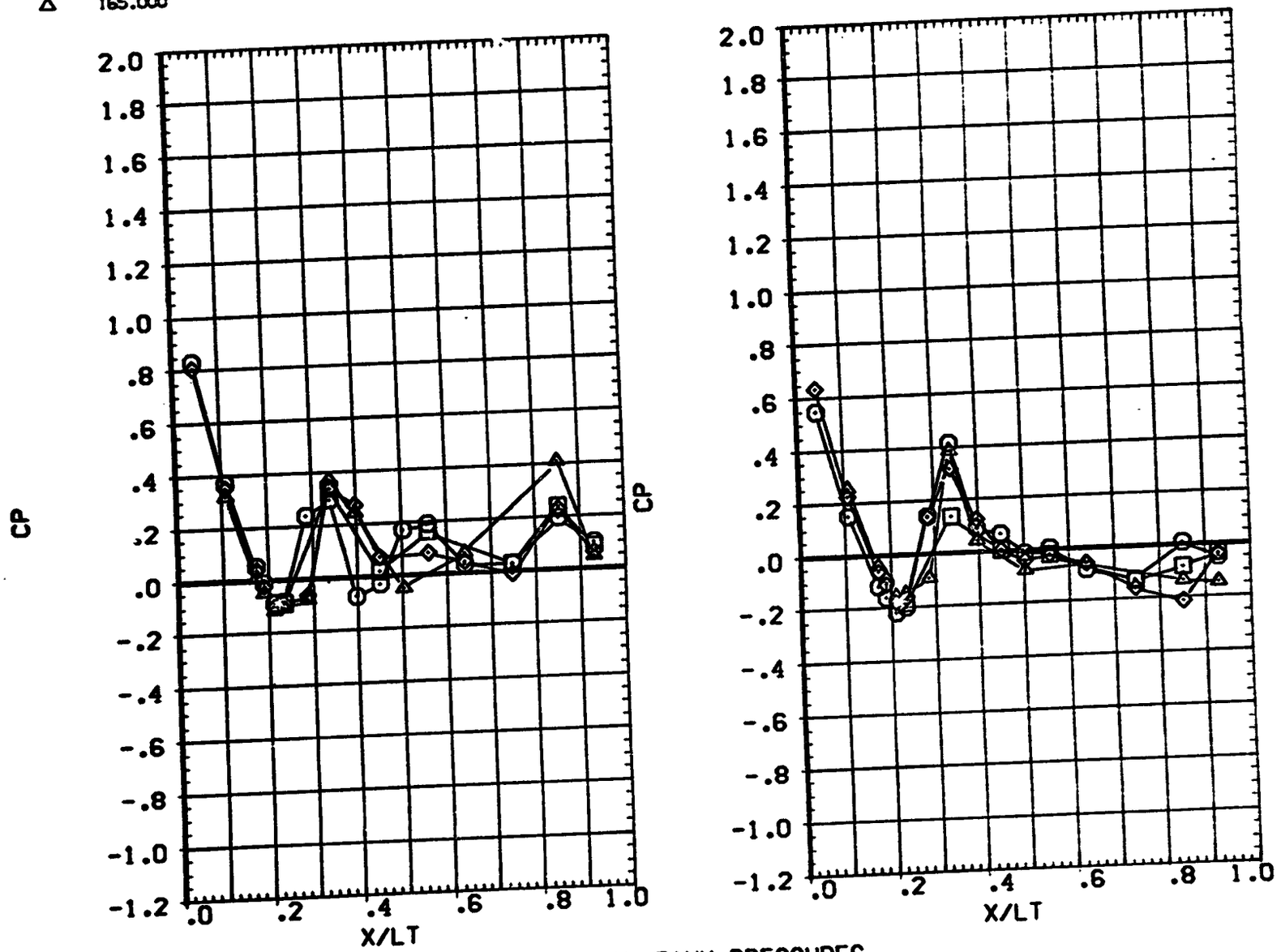
ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL	PHI	BETAT	MACH
○	120.000	-6.150	1.555
□	135.000	5.030	
◇	150.000		
△	165.000		

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



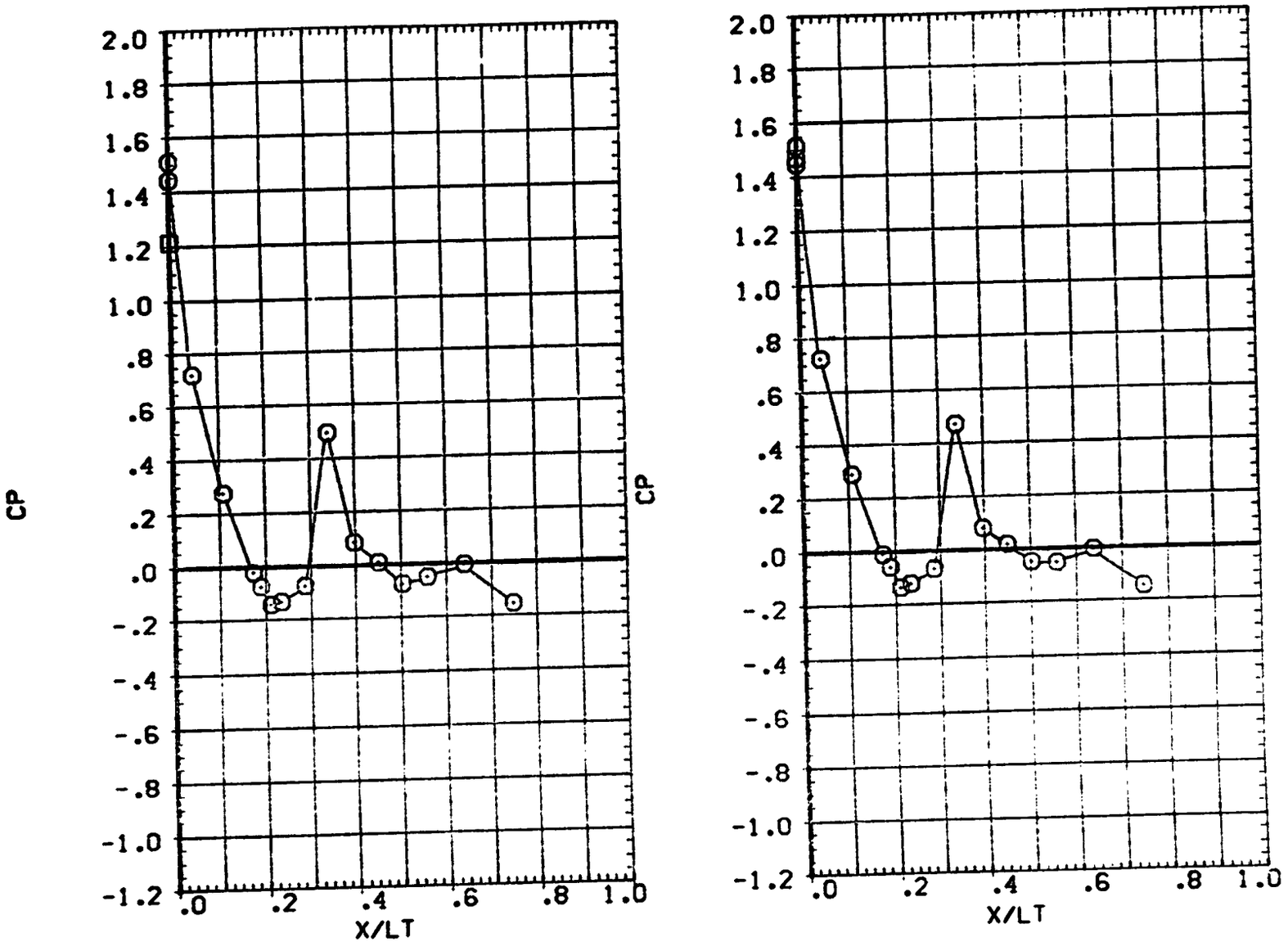
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBCT08)

SYMBOL	PHI	BETAT	MACH
○	180.000	-6.150	1.555
□	270.000	5.030	

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



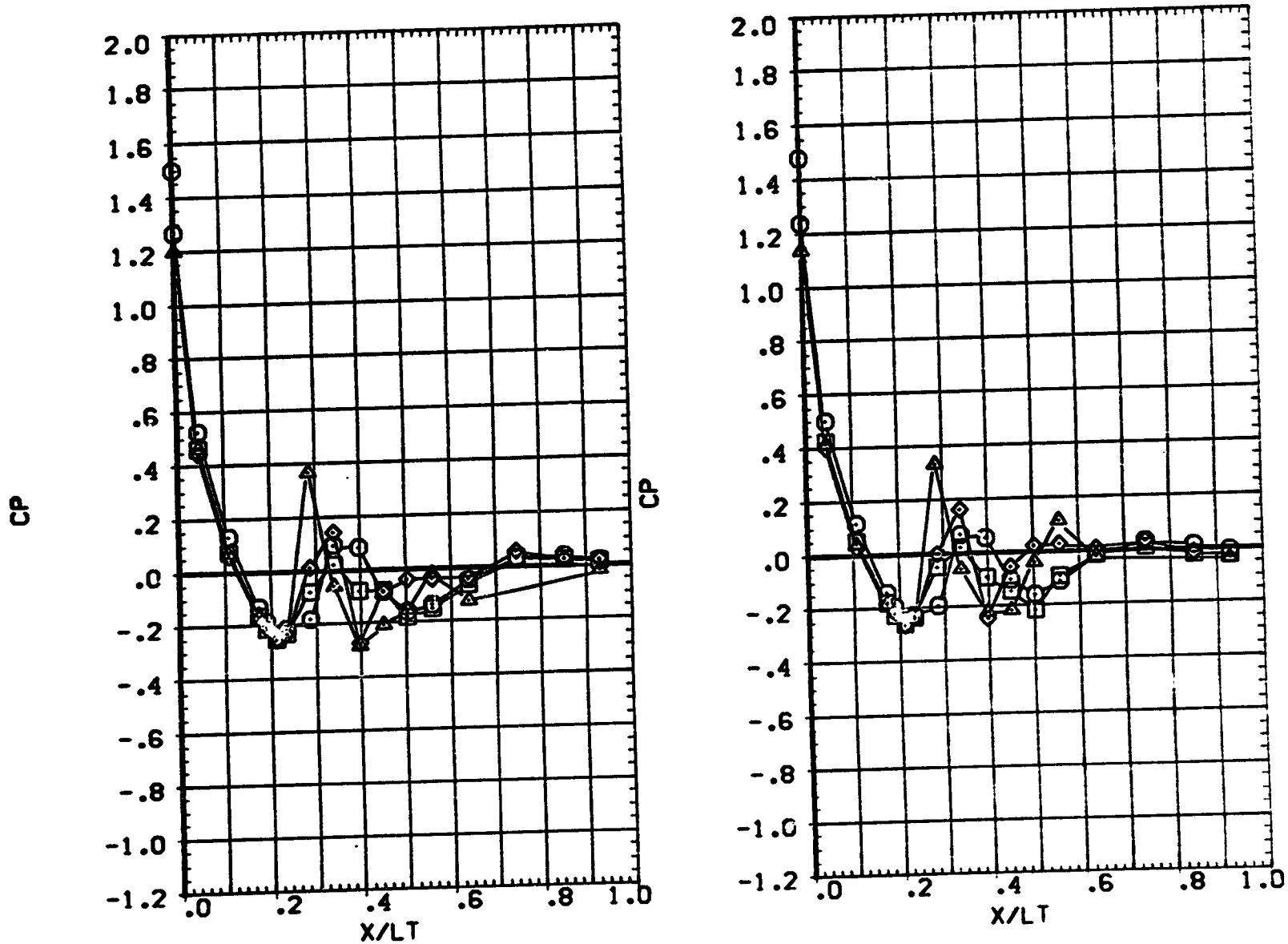
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOTO8)

SYMBOL	PHI	BETAT	MACH
○	.000	7.050	1.555
□	30.000	9.070	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROLLR	.000		



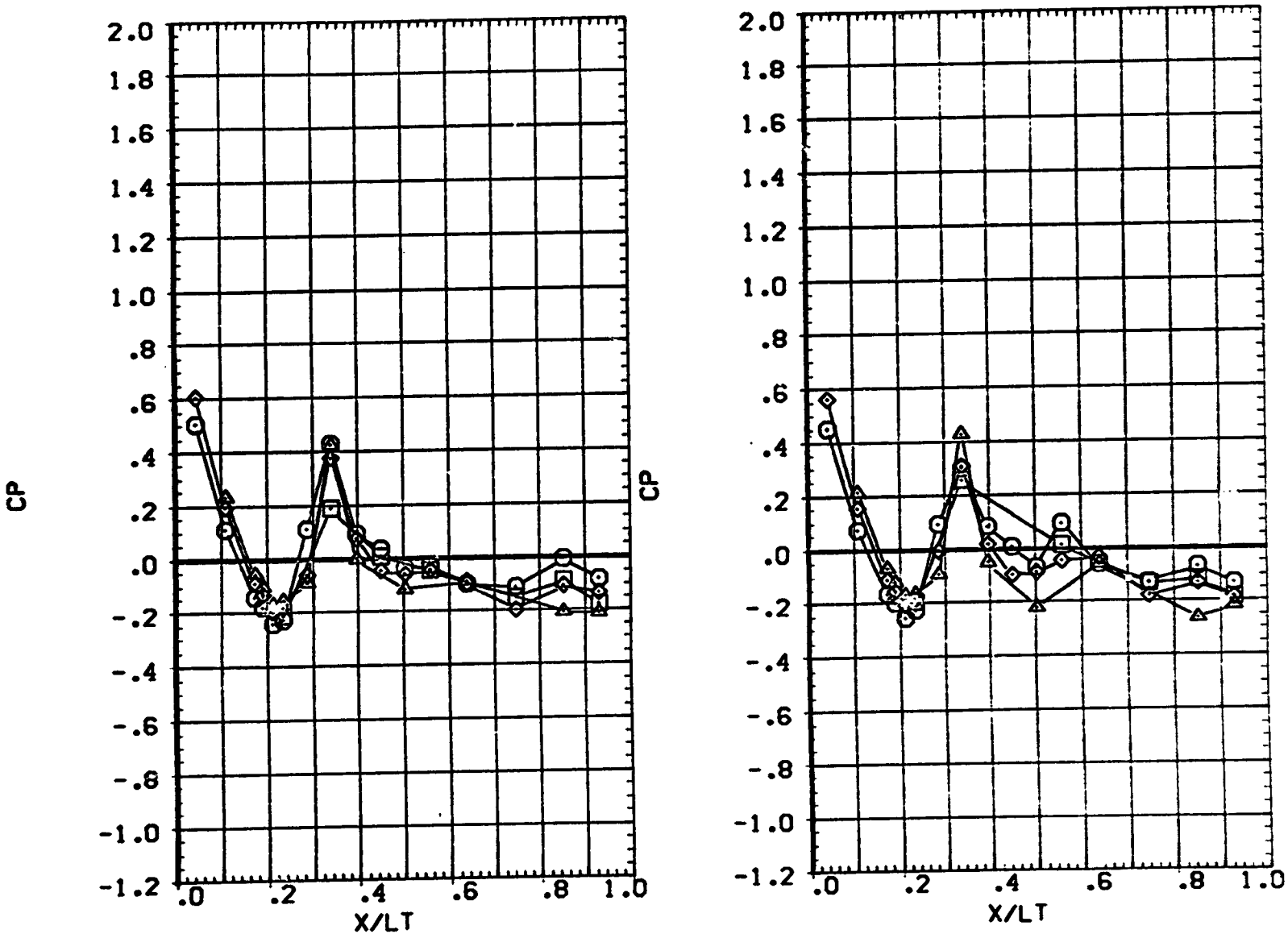
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 C2A + S3 + T9 EXTERNAL TANK (R3CT08)

SYMBOL	PHI	BETAT	MACH
○	120.000	7.050	1.555
□	135.000	9.070	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



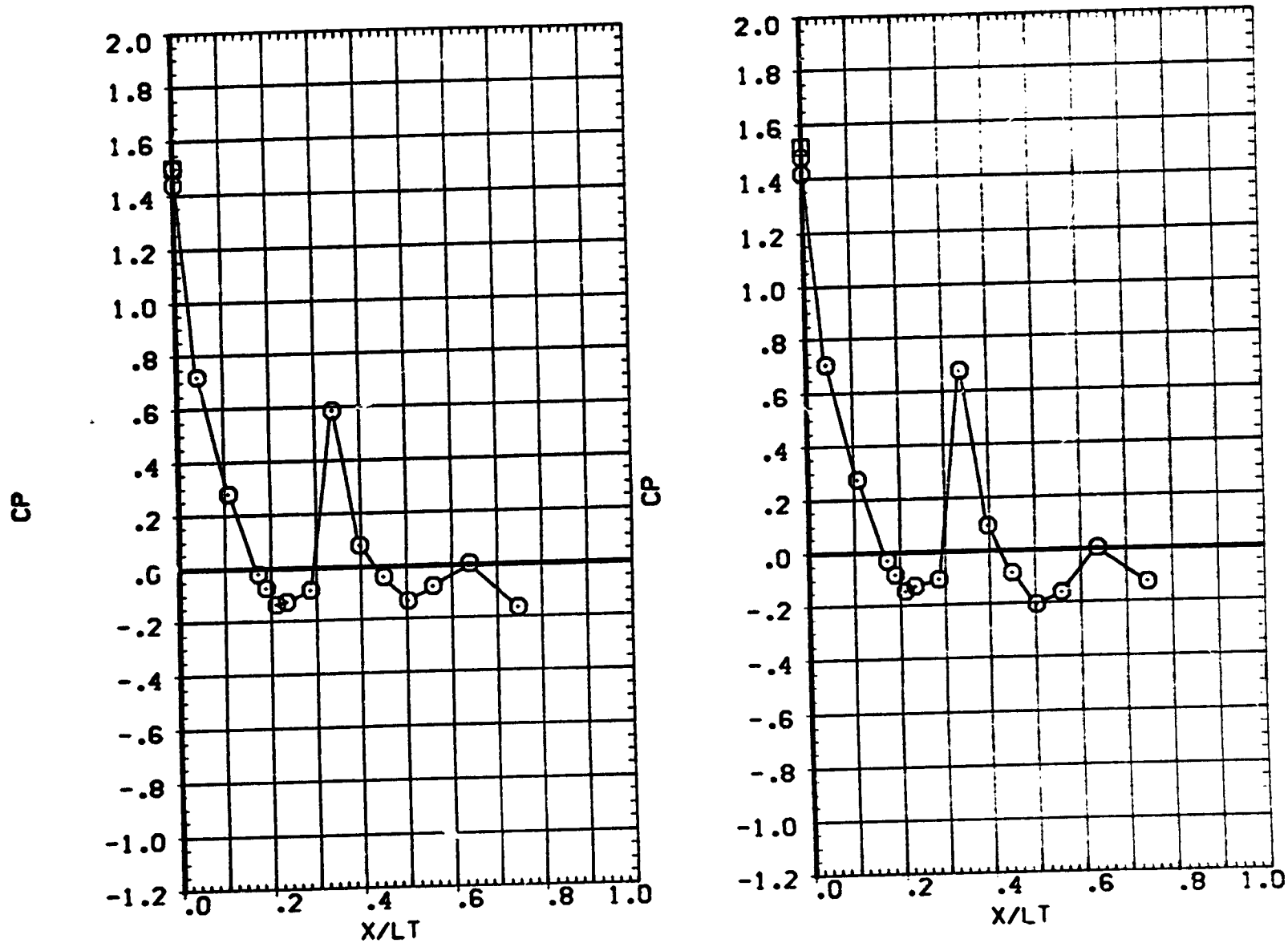
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBCT08)

SYMBOL	PHI	BETAT	MACH
○	180.000	7.050	1.555
□	270.000	9.070	

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROLLR	.000		



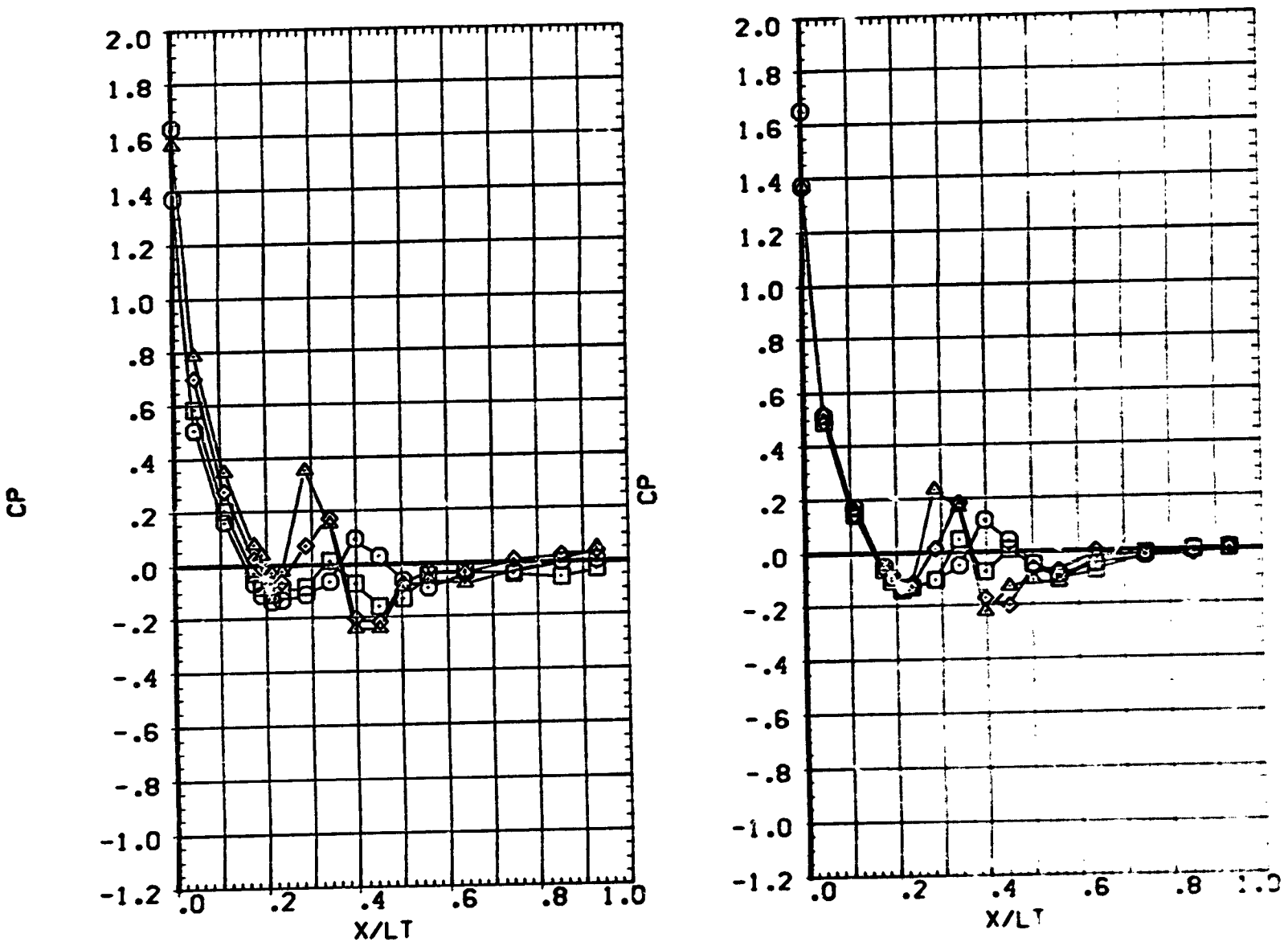
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RB0T08)

SYMBOL	PHI	BETAT	MACH
○	.000	-6.270	2.000
□	30.000	3.920	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	-4.000	SRBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



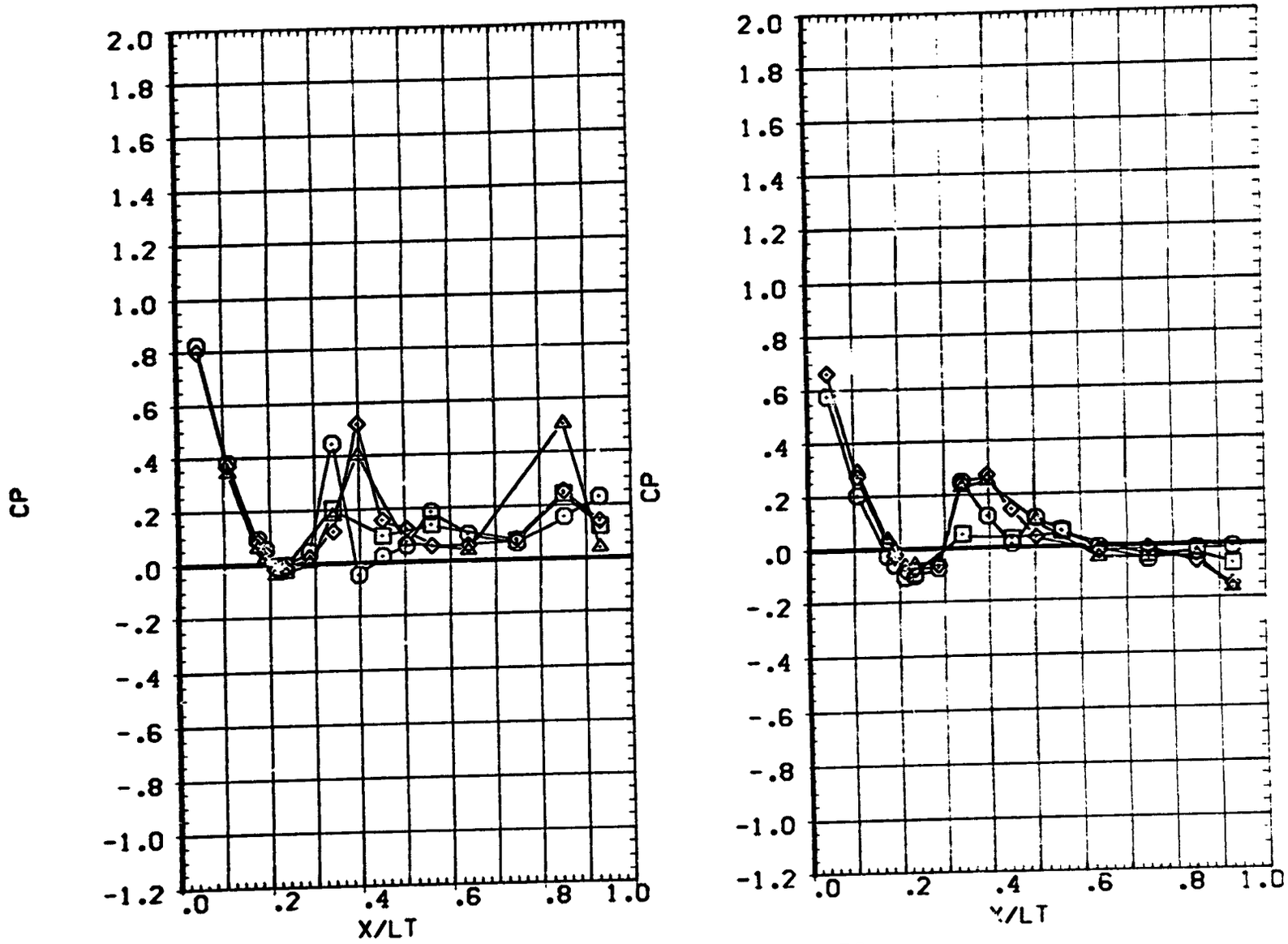
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBCT08)

SYMBOL	PHI	BETAT	MACH
○	120.000	-6.270	2.000
□	135.000	3.920	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
AILER	.000		



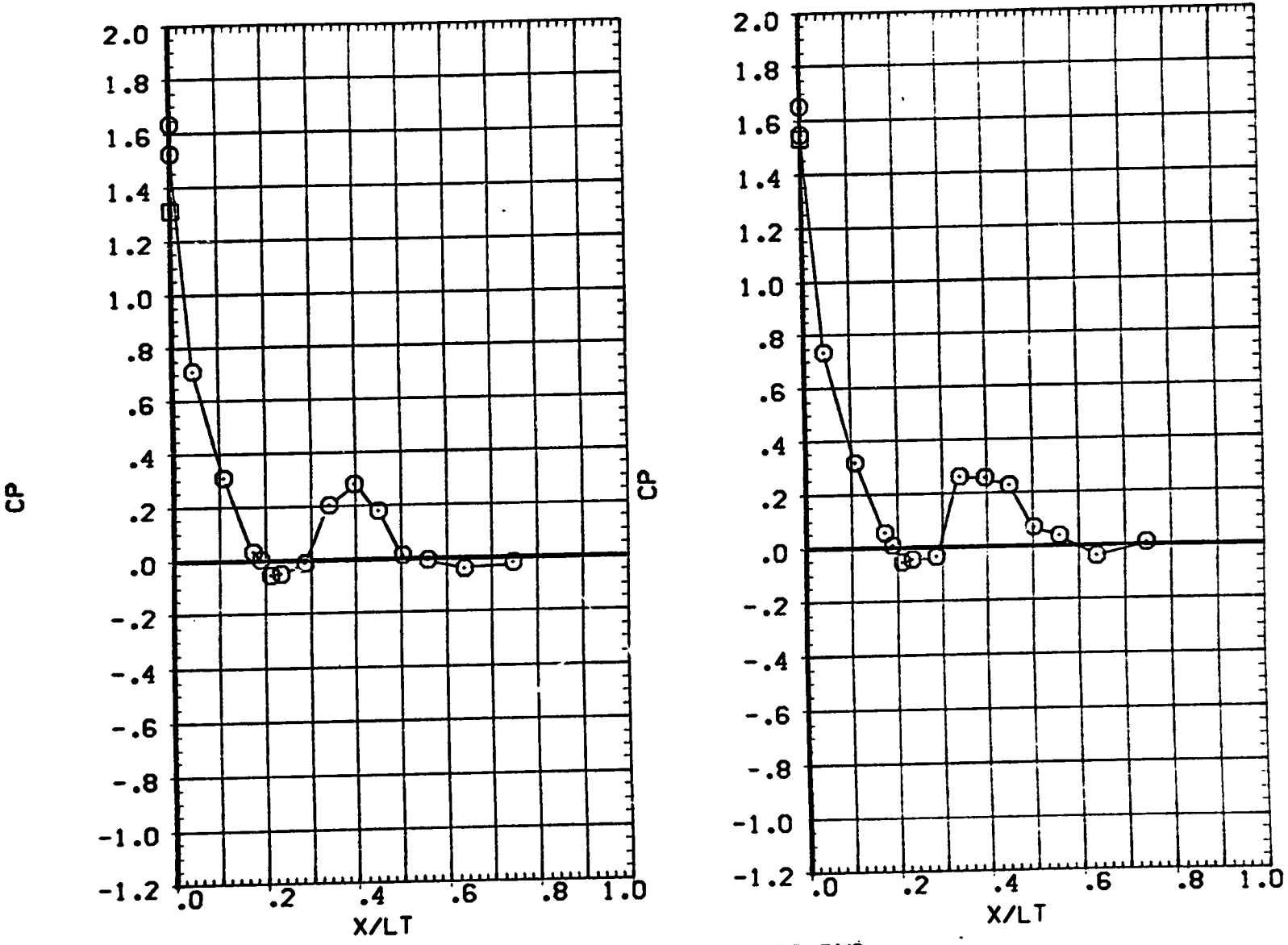
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBCTC8)

SYMBOL	PHI	BETAT	MACH
○	180.000	-6.270	2.000
□	270.000	3.920	

PARAMETRIC VALUES

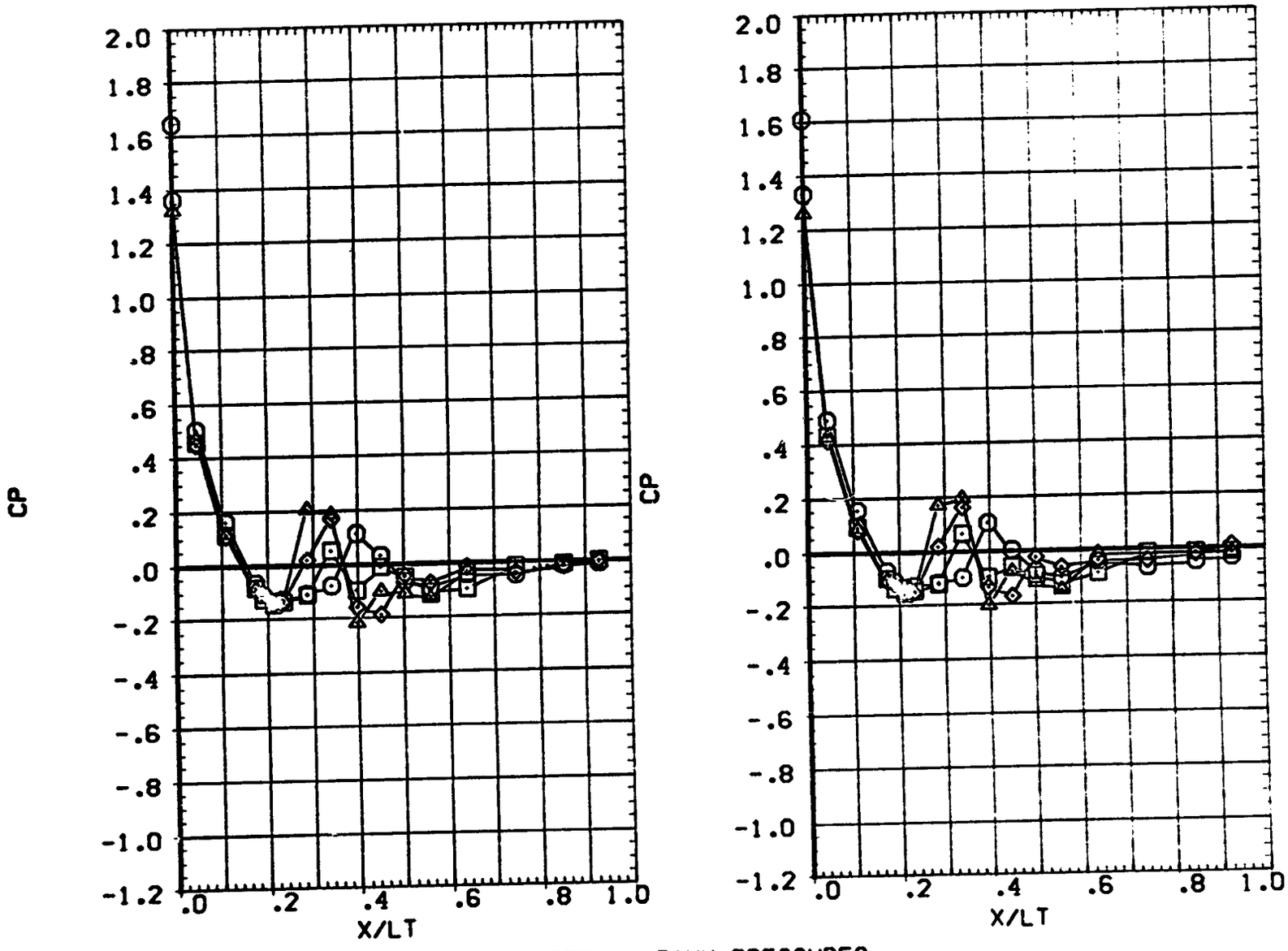
ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROLL_R	.000		



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL	PHI	BETA	MACH
○	.000	5.960	2.000
□	30.000	8.010	
◇	60.000		
△	90.000		

ALPHAT	-4.000	ELEVON	.000
RUDDER	.000		
RUDFLR	.000		



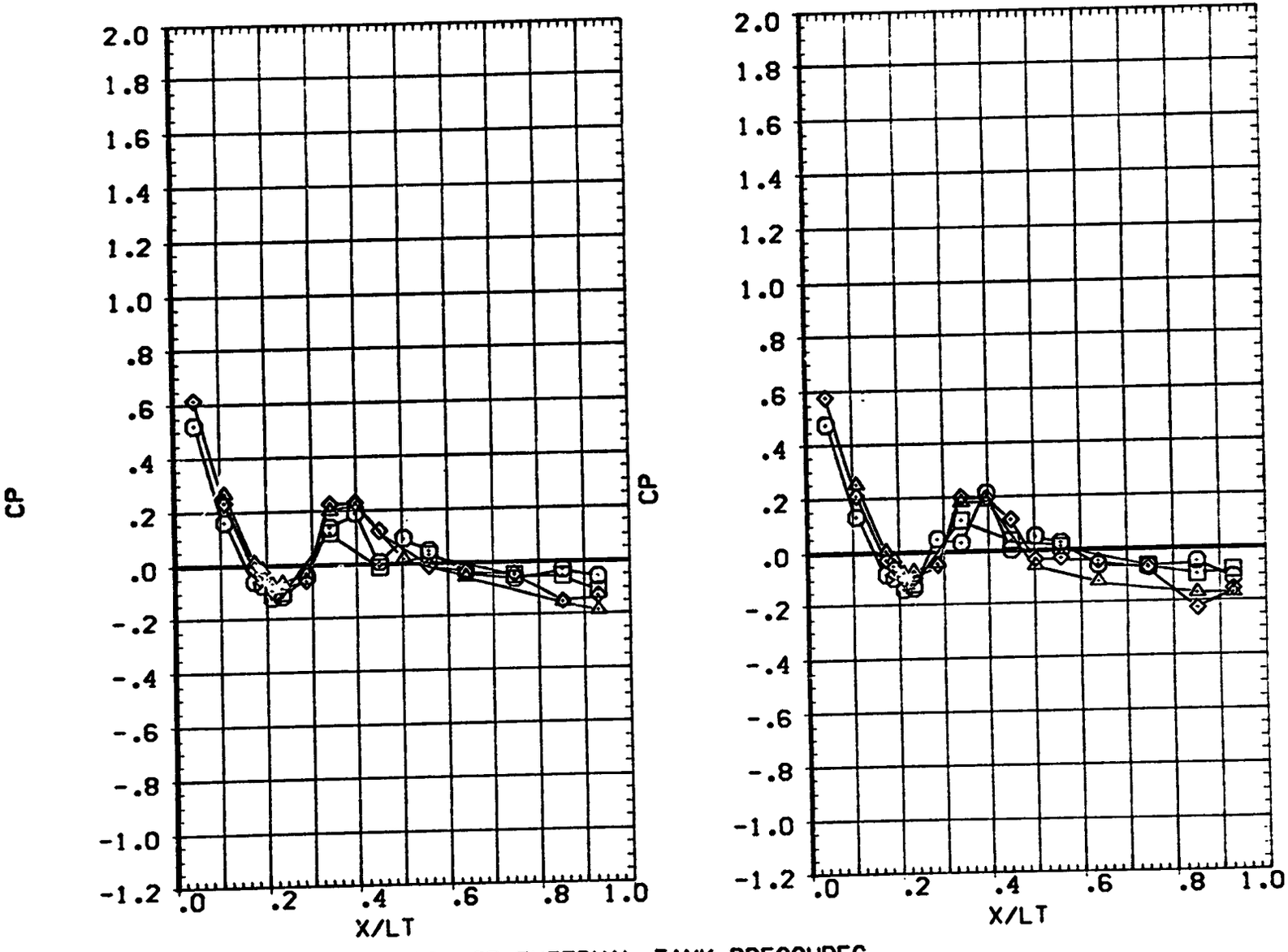
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBCT08)

SYMBOL	PHI	BETAT	MACH
○	120.000	5.960	2.000
□	135.000	8.010	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVCN	.000
RUDFLR	.000		

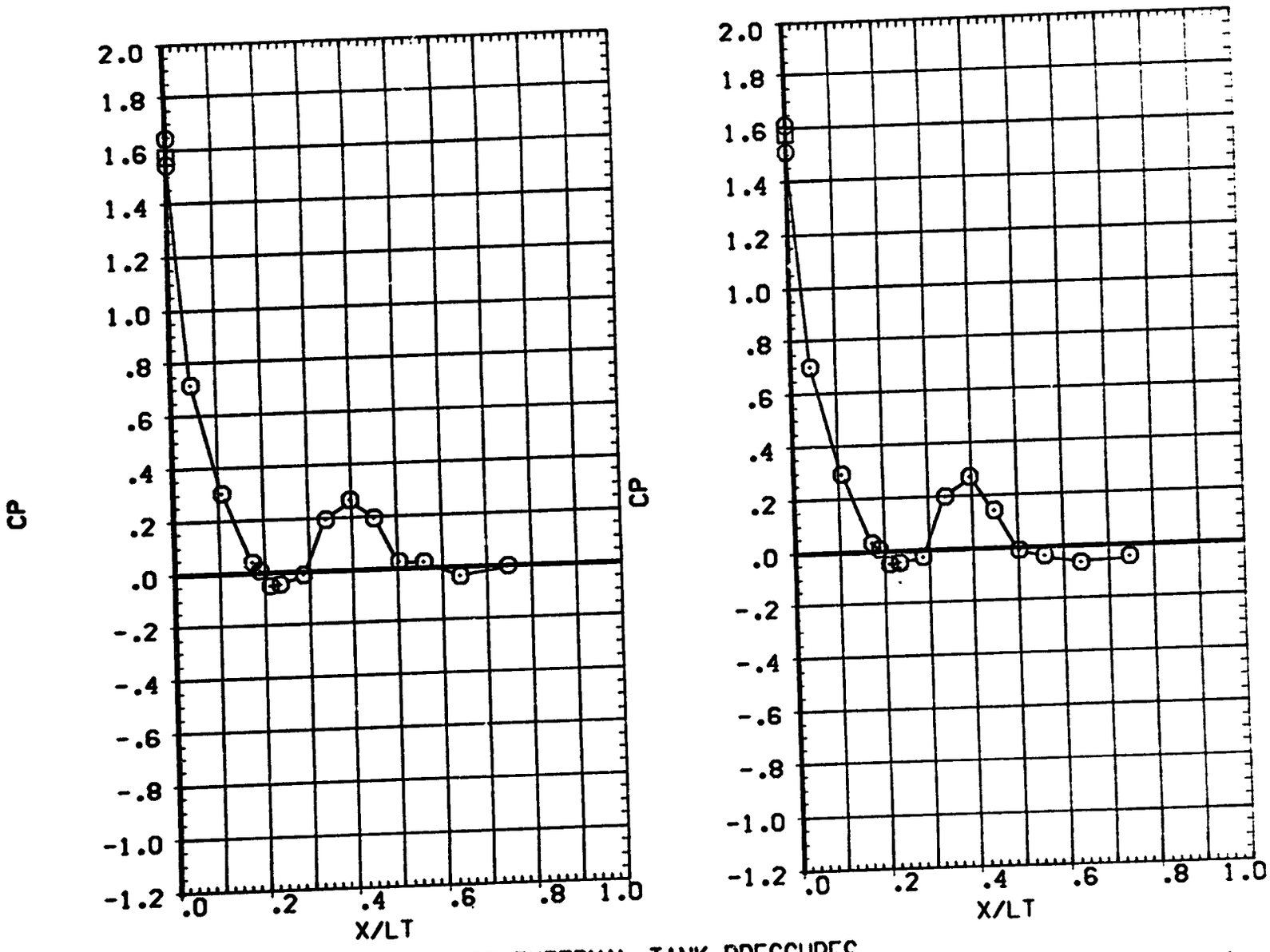


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL	PHI	BETAT	MACH
○	180.000	5.960	2.000
□	270.000	8.010	

PARAMETRIC TRENDS

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



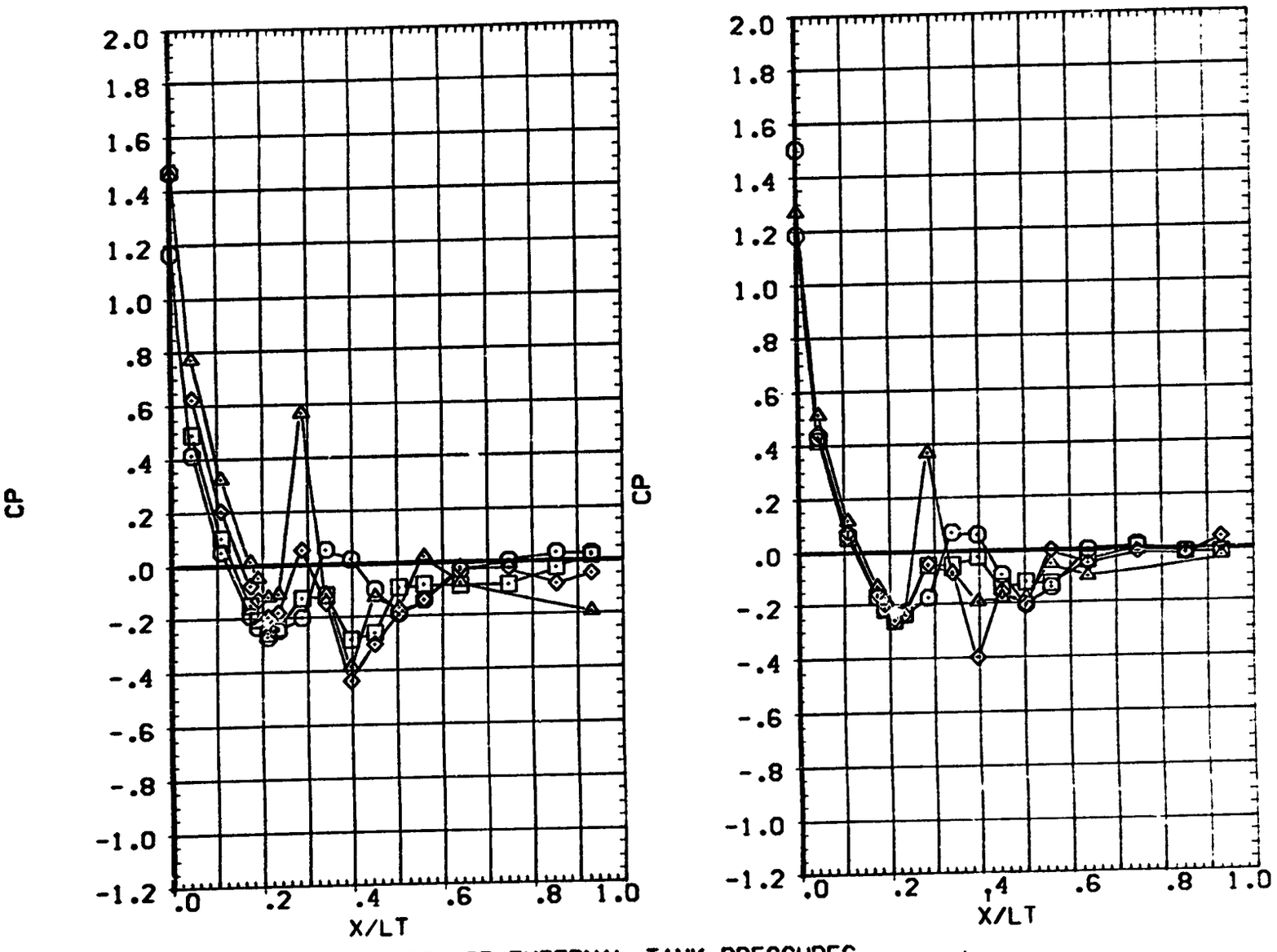
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOT10)

SYMBOL	PHI	BETAT	MACH
○	.000	-6.210	1.555
□	30.000	3.650	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	-8.000	CRSINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



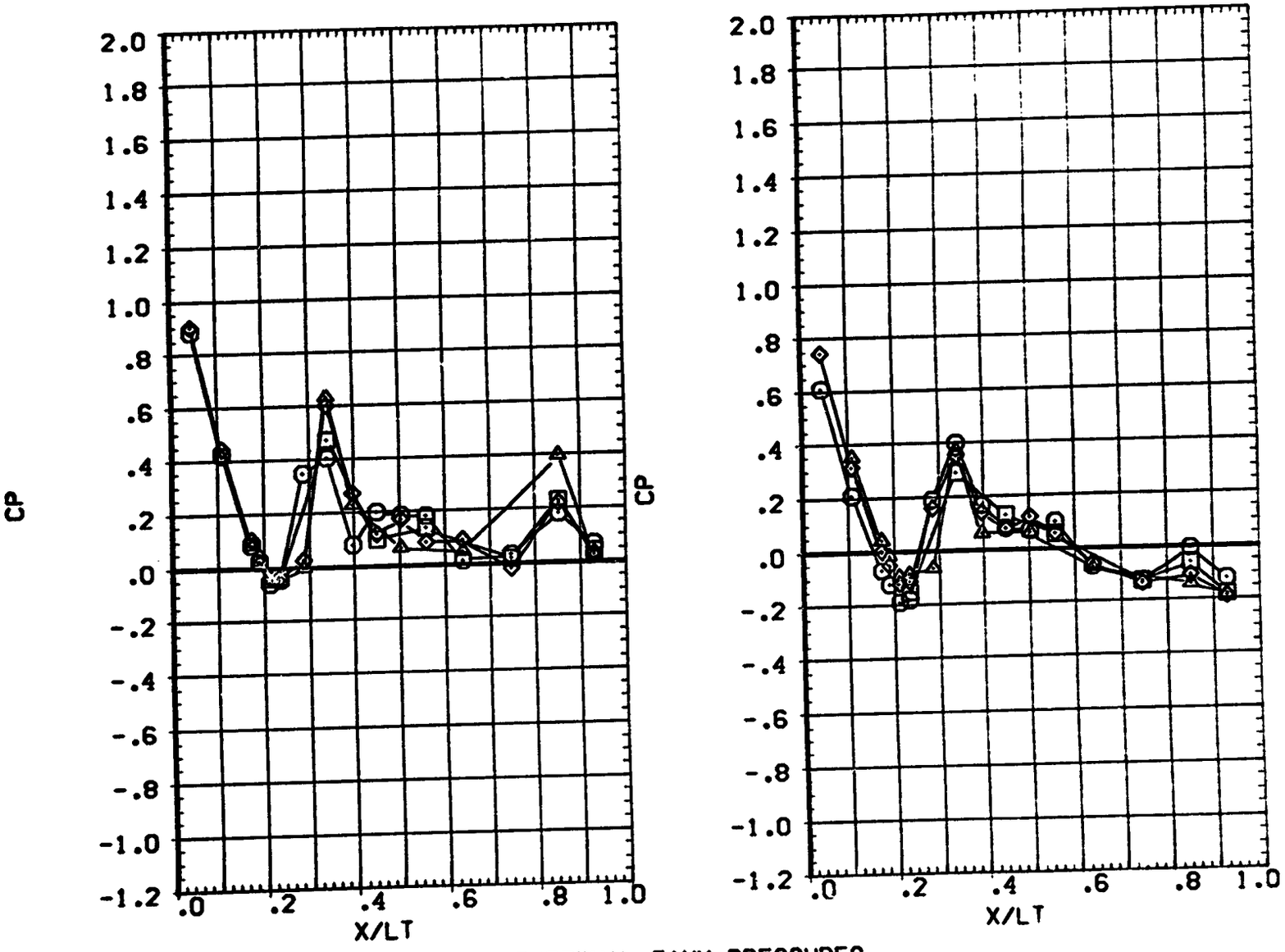
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOT10)

SYMBOL	PHI	BETAT	MACH
○	120.000	-6.210	1.555
□	135.000	3.650	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



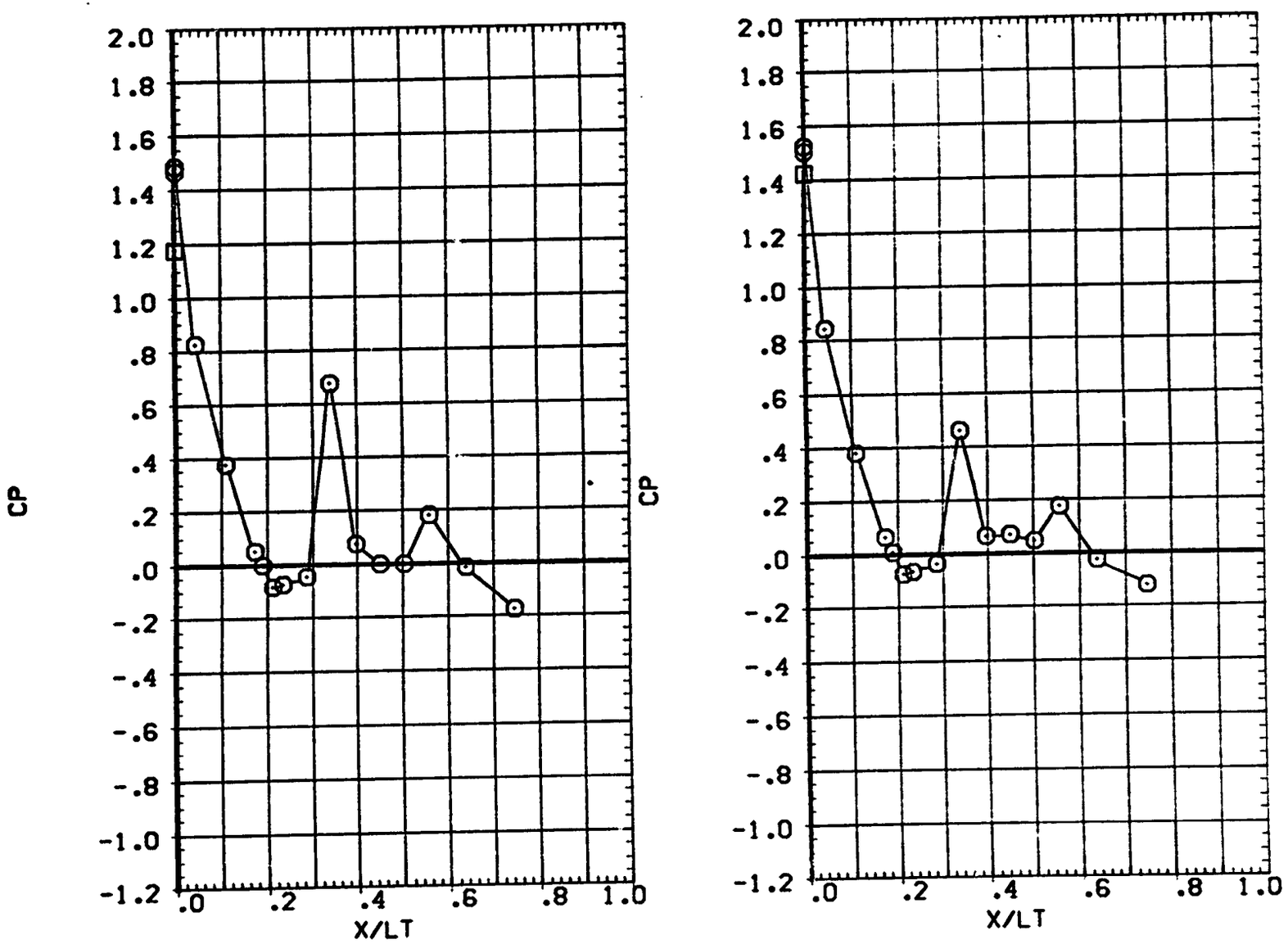
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOT10)

SYMBOL	PHI	BETAT	MACH
○	180.000	-6.210	1.555
□	270.000	3.650	

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



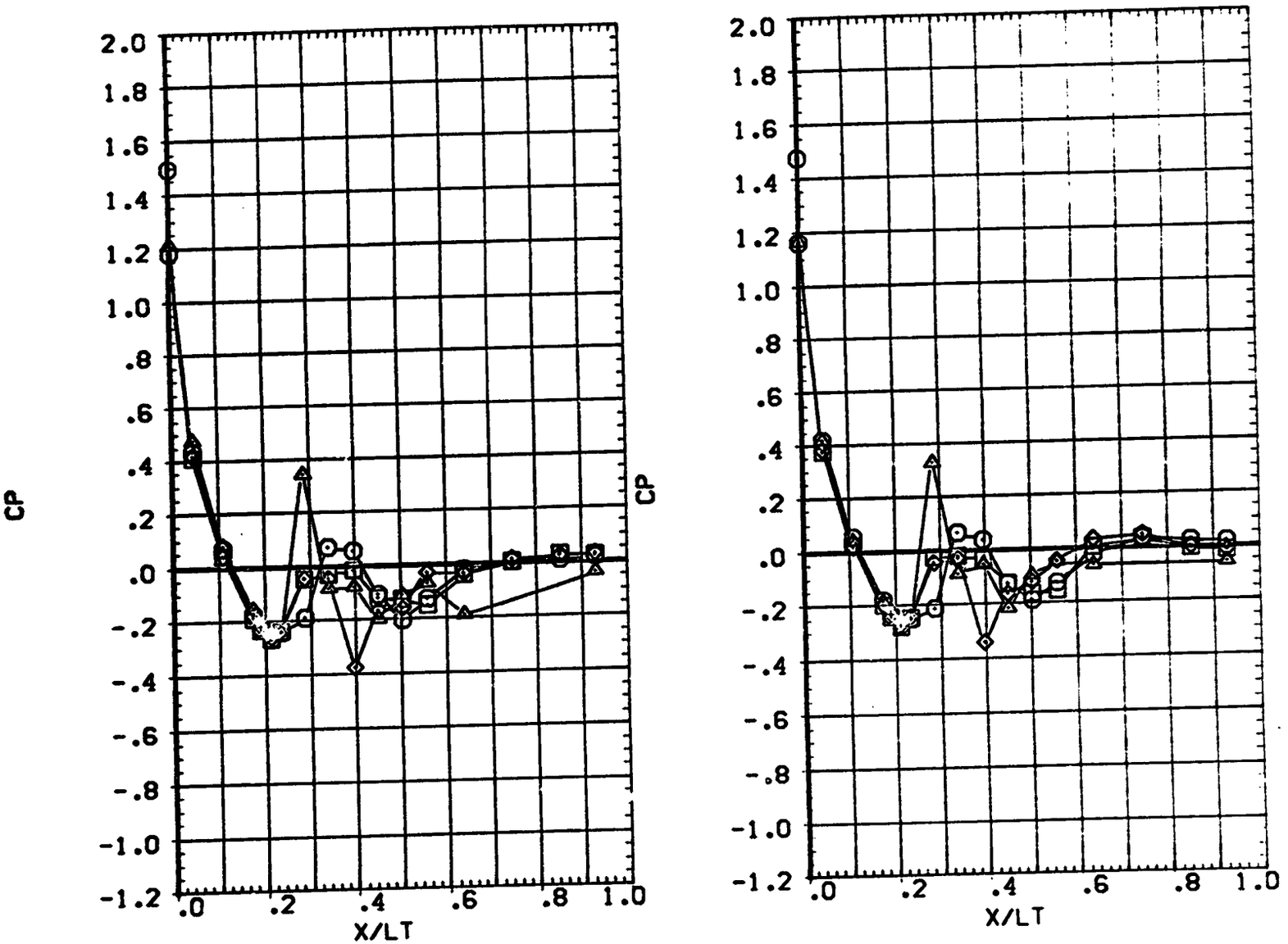
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOT10)

SYMBOL	PHI	BETAT	MACH
○	.000	5.710	1.555
□	30.000	7.770	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



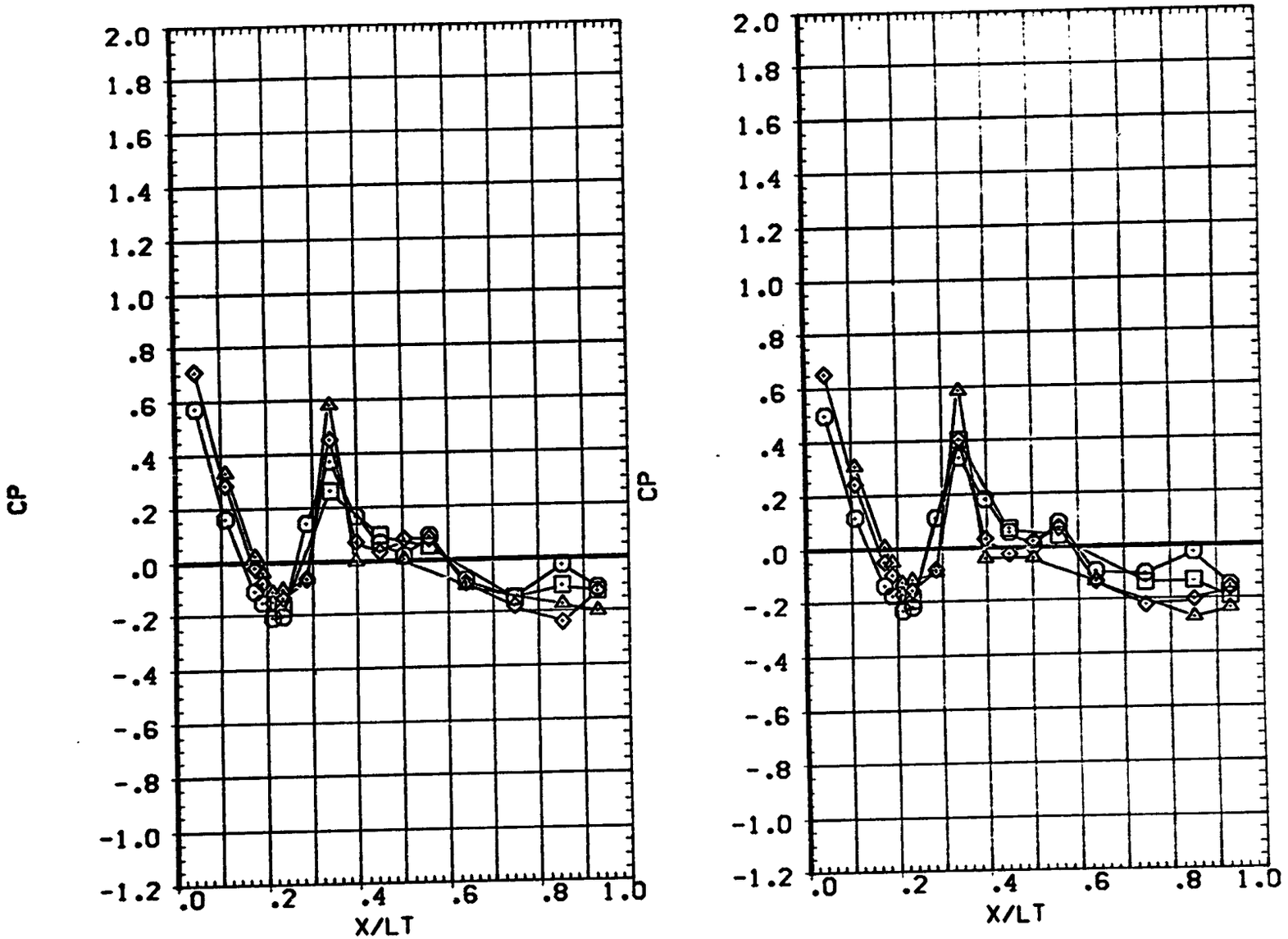
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOT10)

SYMBOL	PHI	BETAT	MACH
○	120.000	5.710	1.555
□	135.000	7.770	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



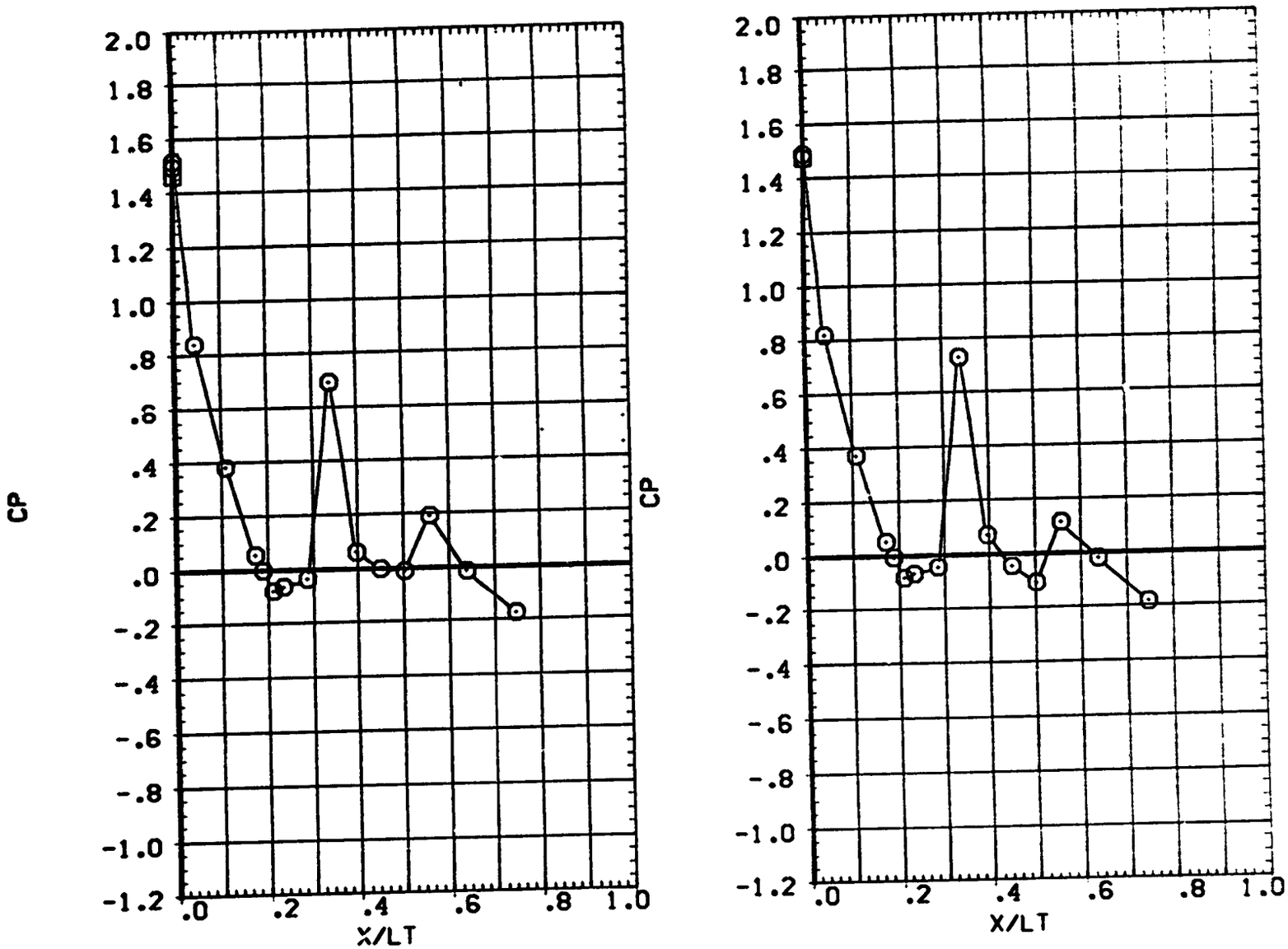
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBOT10)

SYMBOL	PHI	BETAT	MACH
○	180.000	5.710	1.555
□	270.000	7.770	

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



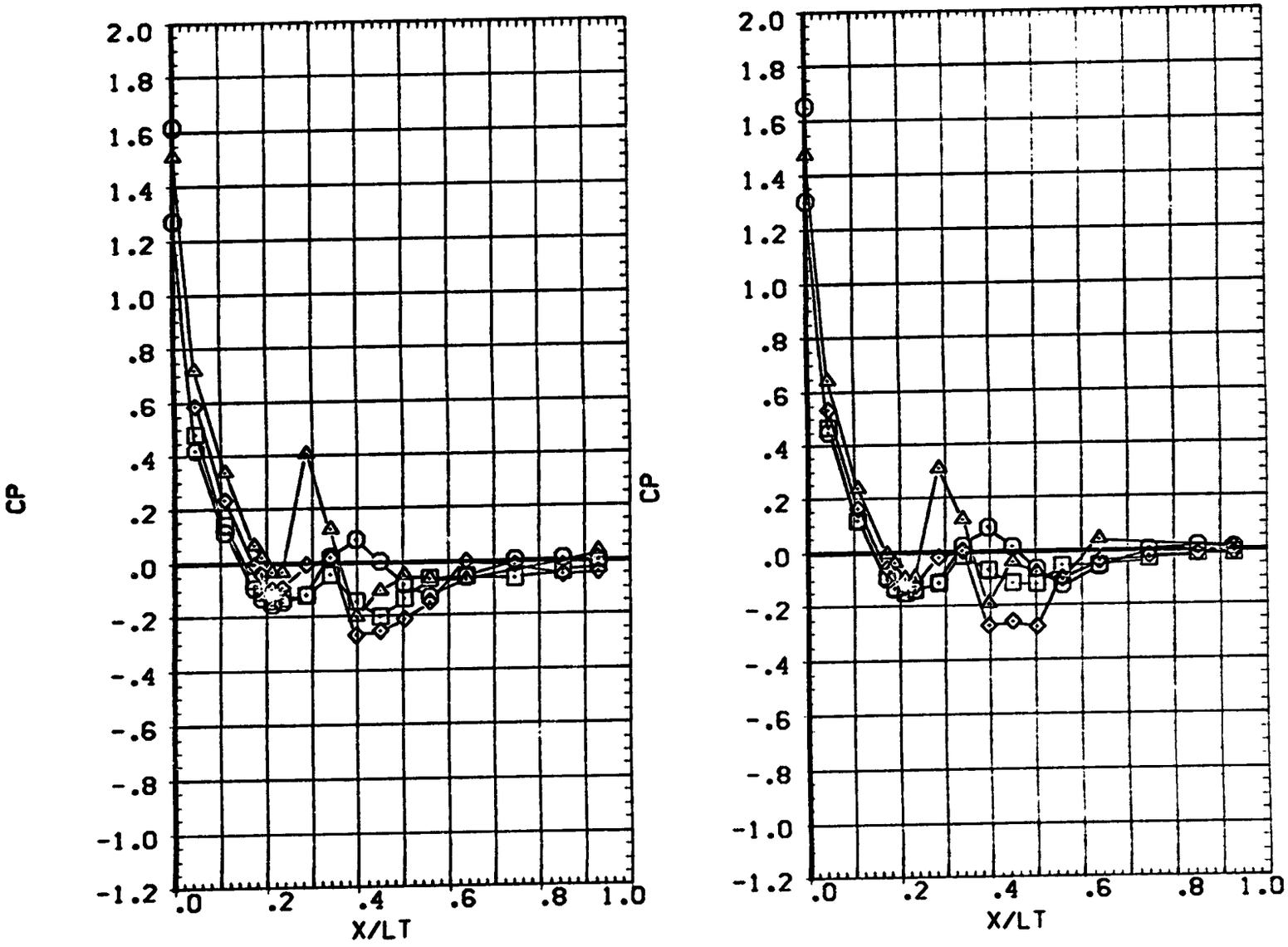
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOT10)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.280	2.000
□	30.000	-.170	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVCN	.000
RUDFLR	.000		



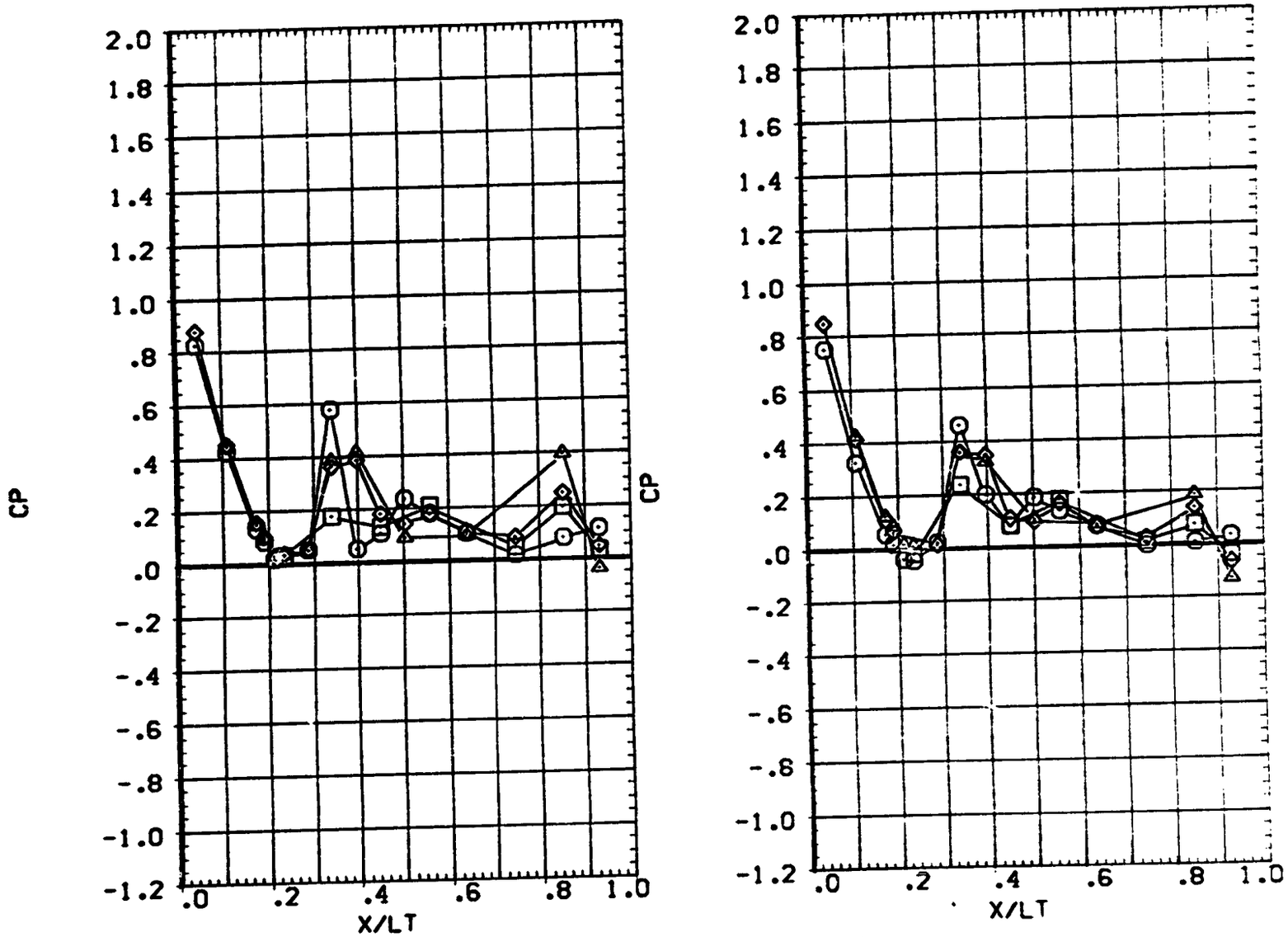
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOT10)

SYMBOL	PHI	BETAT	MACH
○	120.000	-4.280	2.000
□	135.000	-.170	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



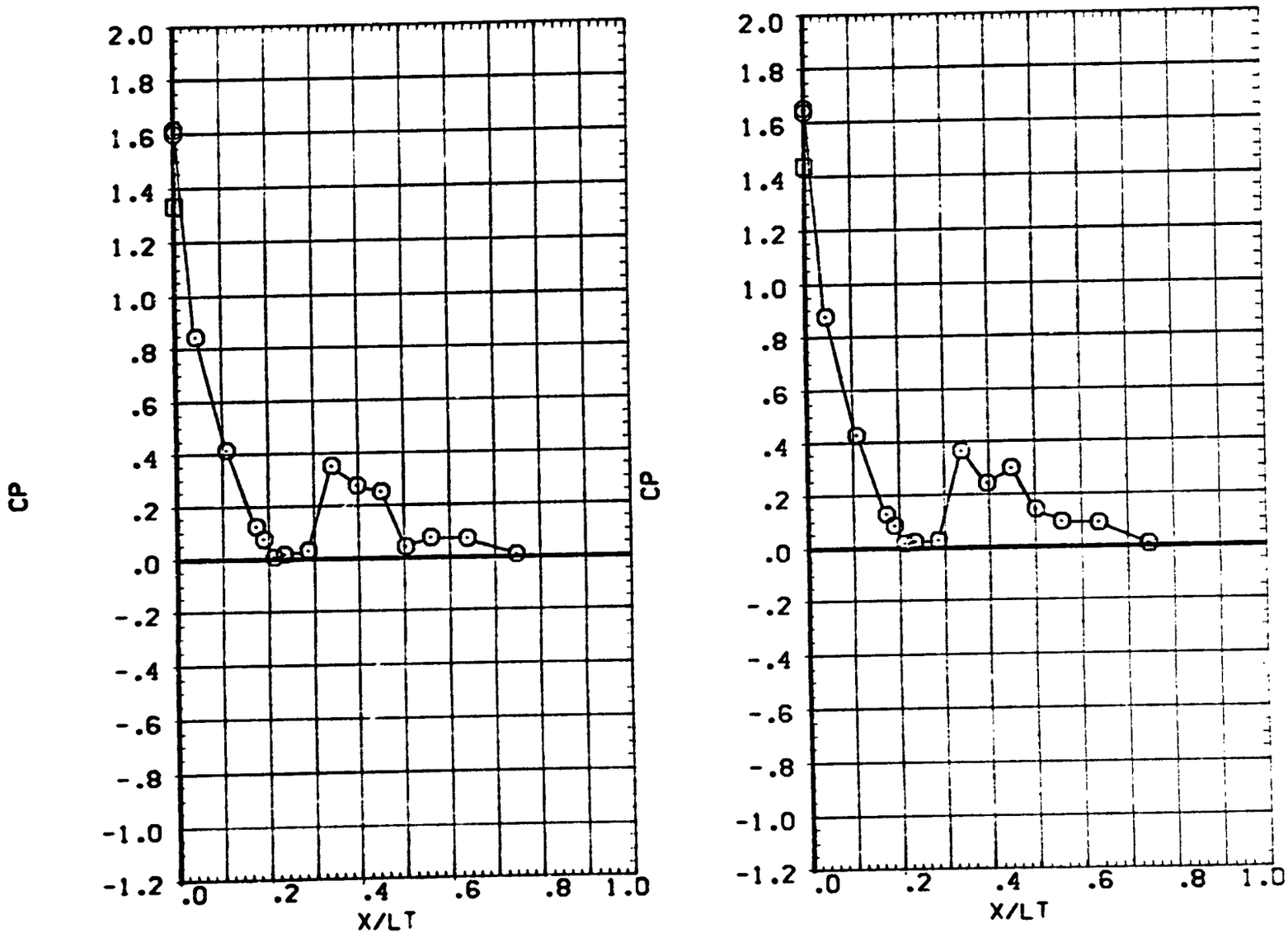
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBCT10)

SYMBOL	PHI	BETAT	MACH
○	180.000	-4.280	2.000
□	270.000	-.170	

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



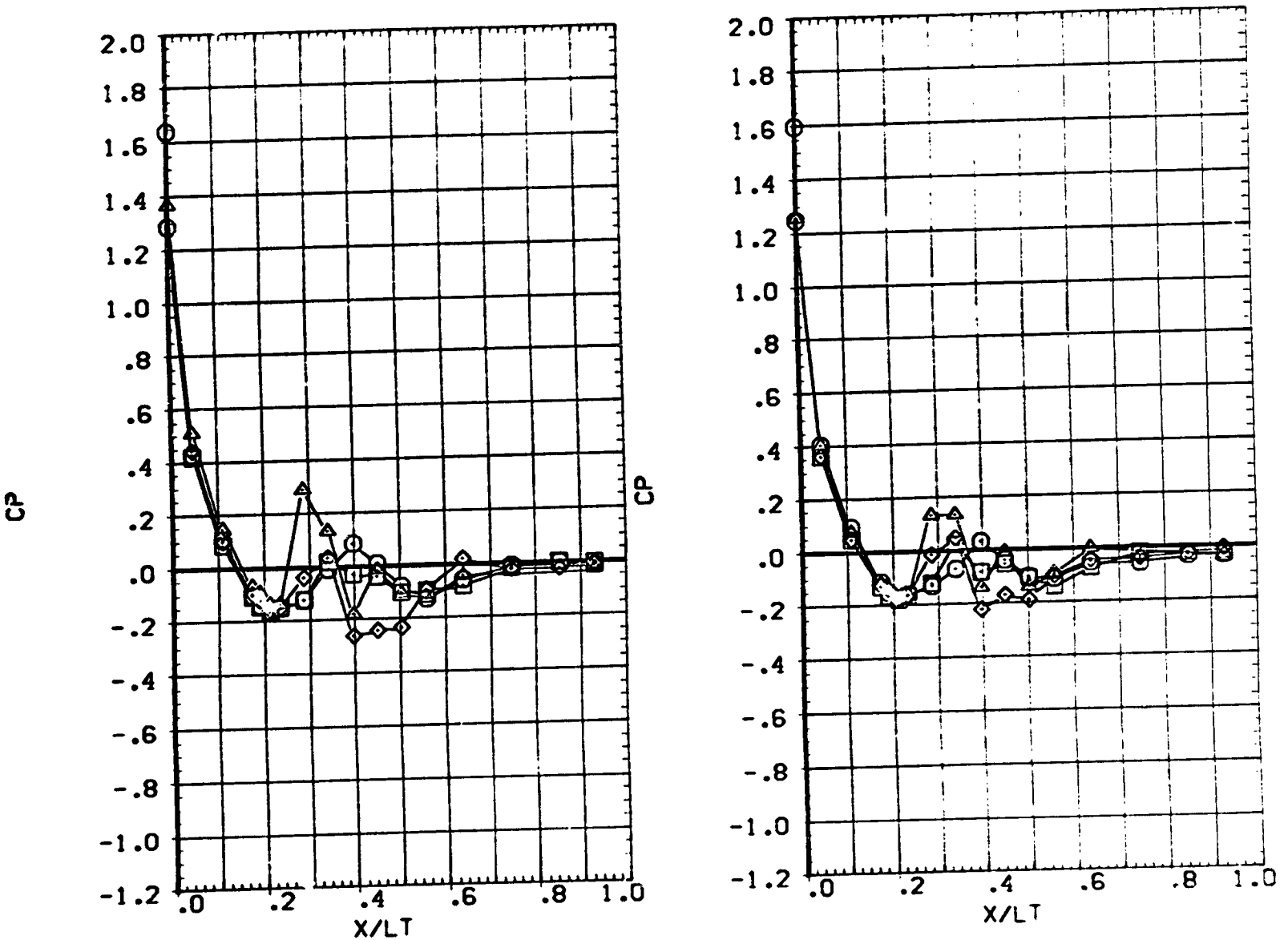
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBOTIO)

SYMBOL	PHI	BETAT	MACH
□	.000	3.940	2.000
◇	30.000	8.050	
△	60.000		
	90.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLP	.000		



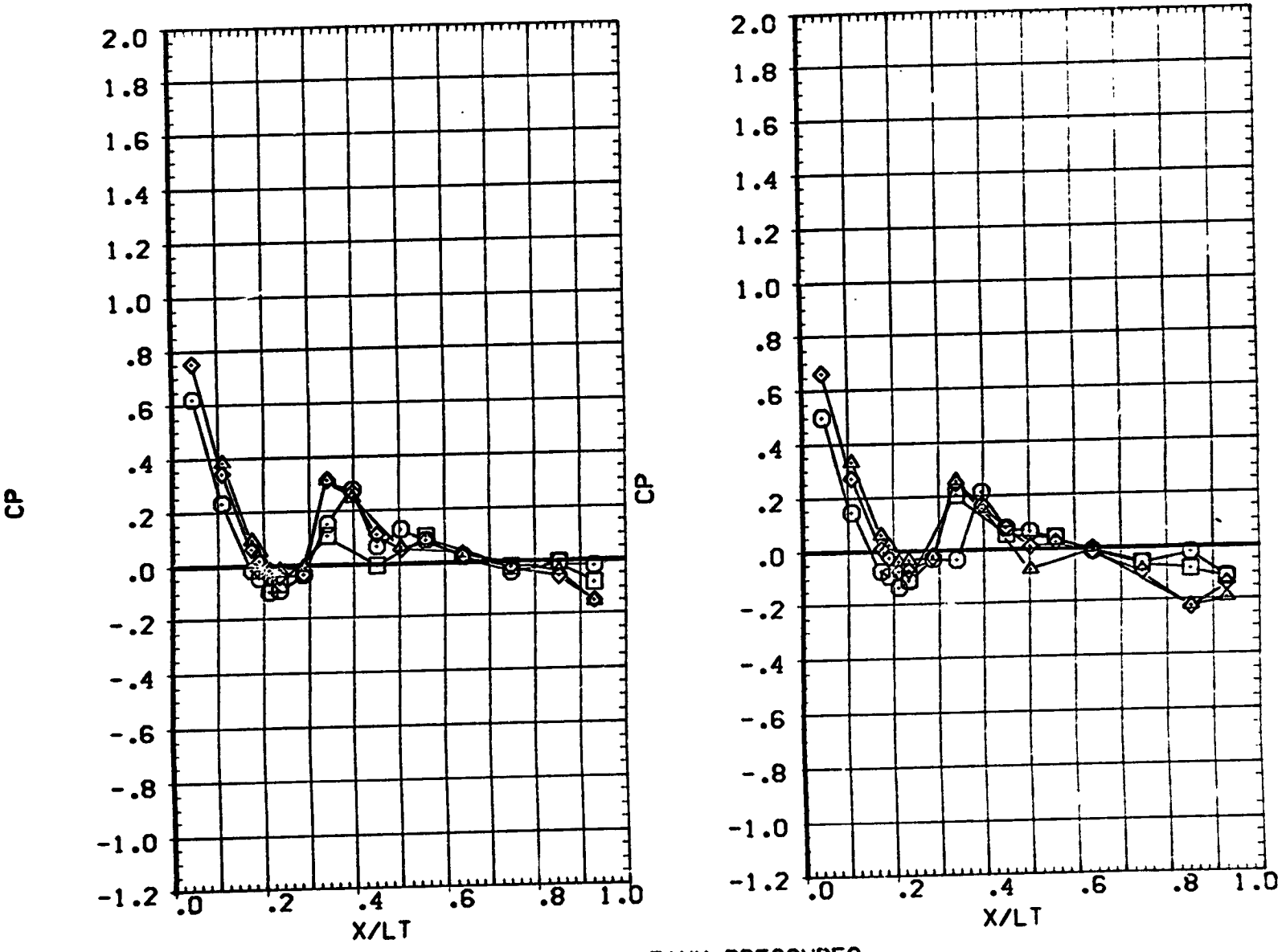
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 TAU 02A + 53 + 19 EXTERNAL TANK [illegible]

SYMBOL	PHI	BETAT	MACH
○	120.000	3.940	2.000
□	135.000	8.050	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

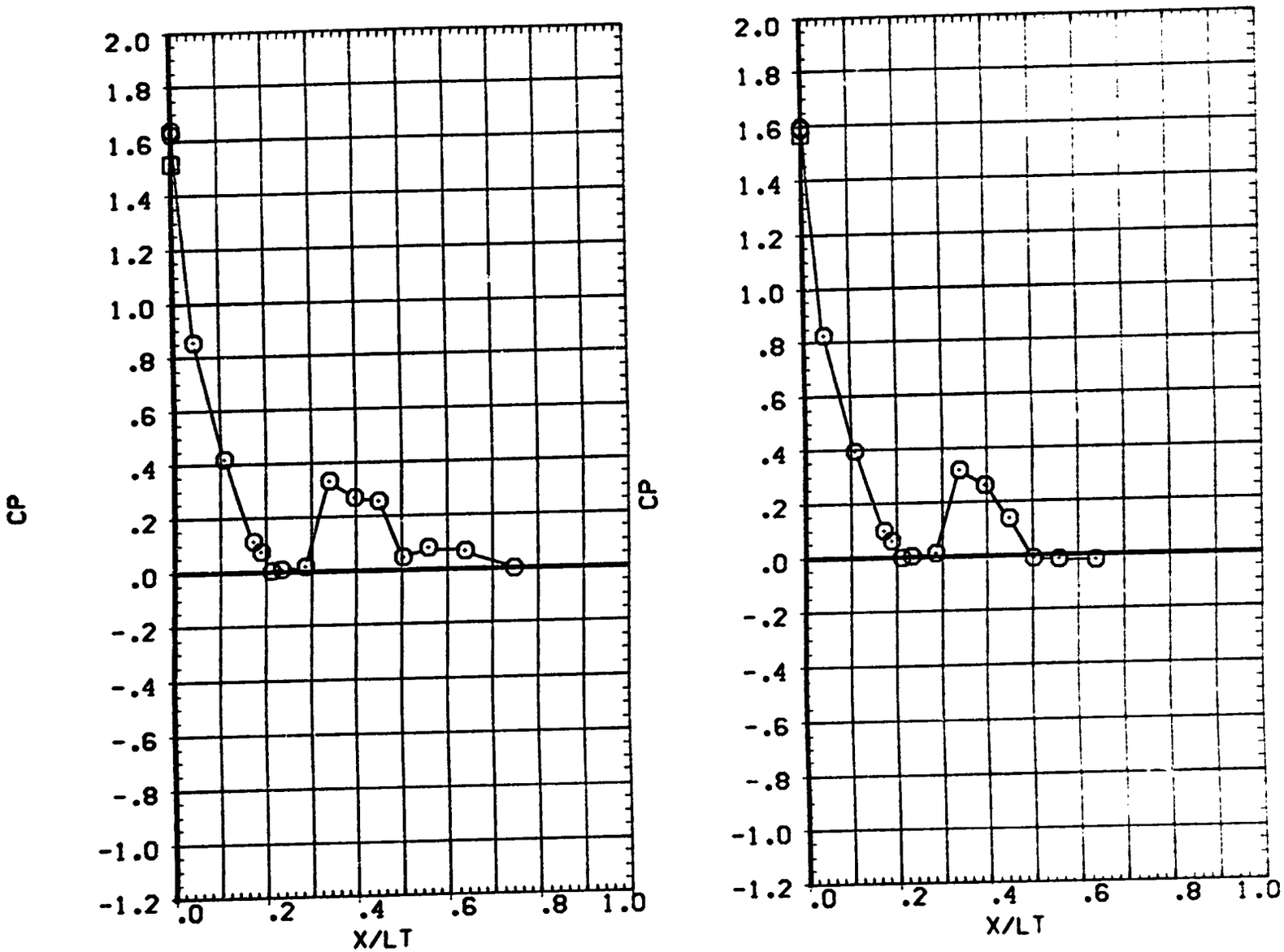
ALPHAT	-8.000	SREINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL	PHI	BETAT	MACH
○	180.000	3.940	2.000
□	270.000	9.050	

ALPHAT	-8.000	SPOINC	.500
RUDDER	.000	ELEVCN	.000
RUDFLR	.000		



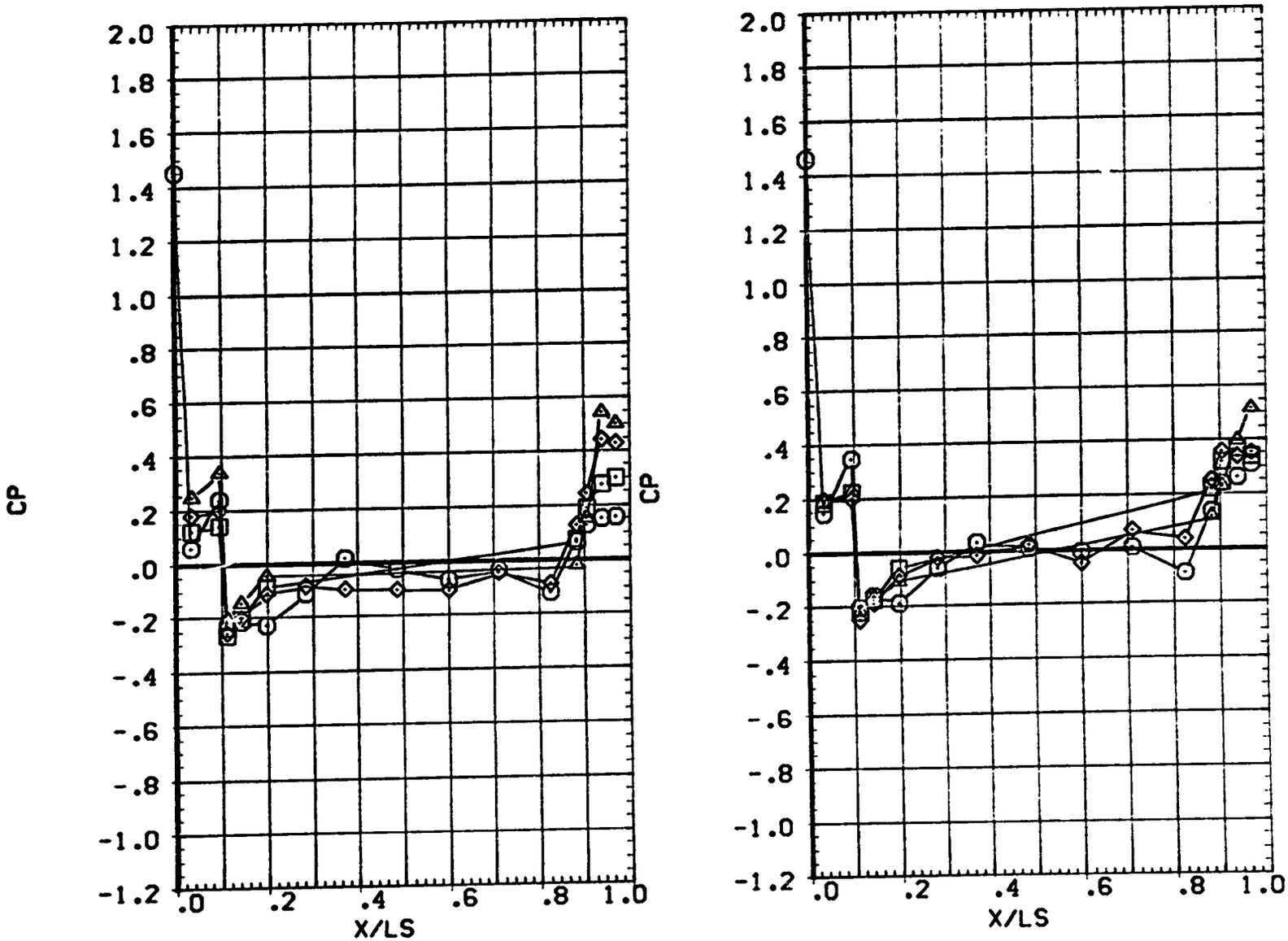
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES.

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RBOS01)

SYMBOL	PHI	ALPHAT	MACH
○	.000	-4.250	1.555
□	45.000	-.120	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



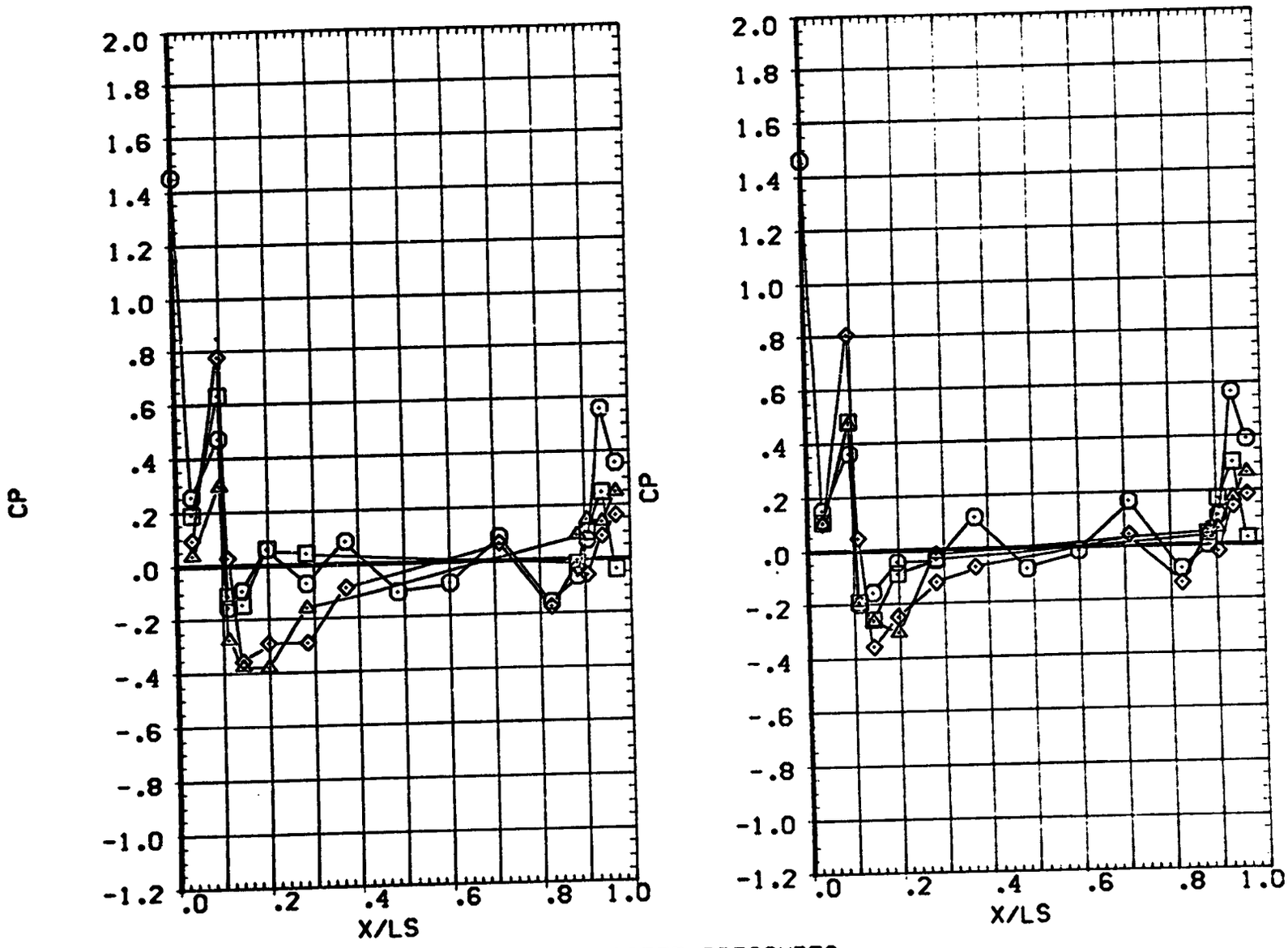
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (OBJECT)

SYMBOL	PHI	ALPHAT	MACH
○	180.000	-4.250	1.555
□	225.000	-.120	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



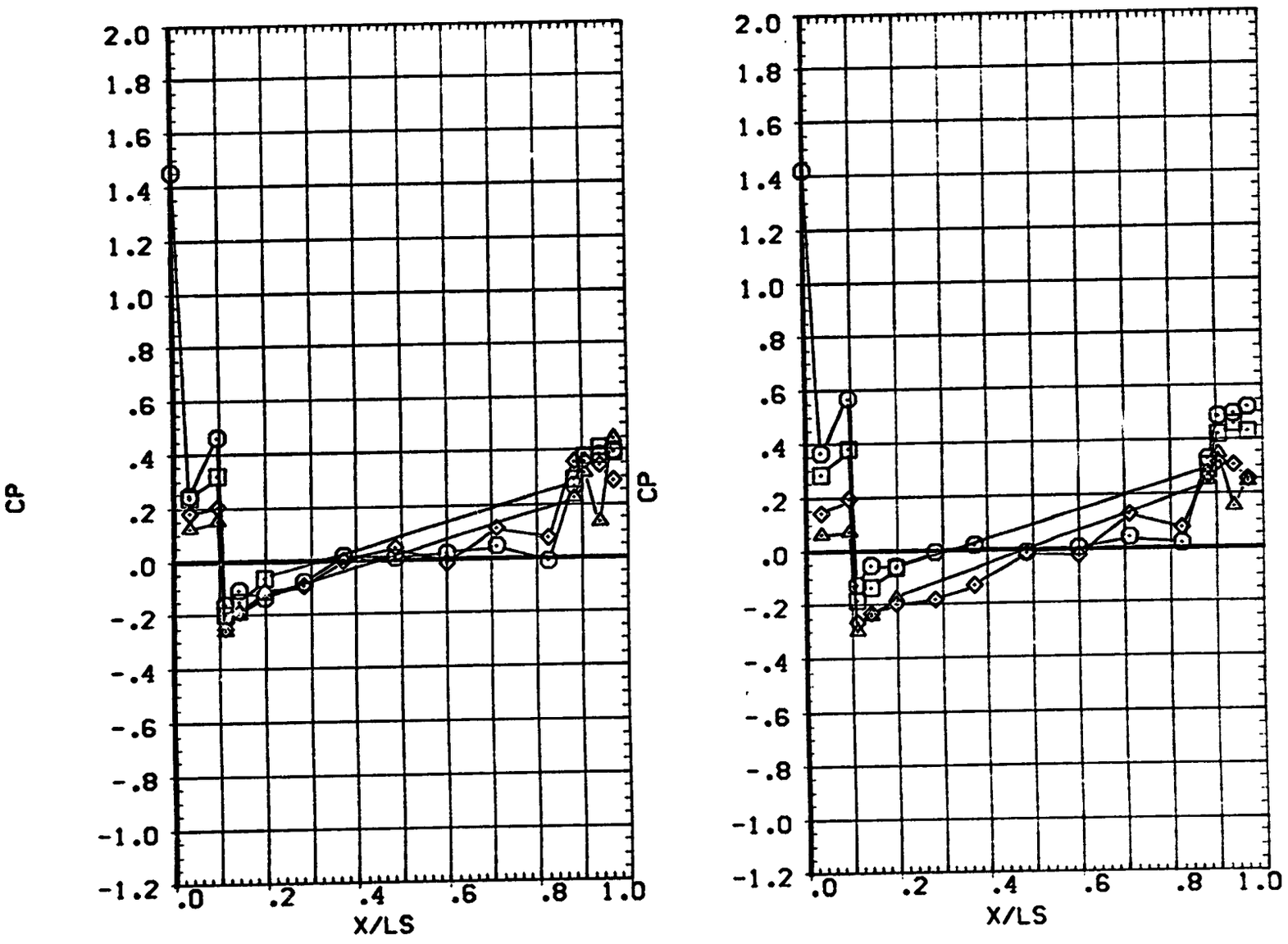
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER (RBCS01)

SYMBOL	PHI	ALPHAT	MACH
○	.000	4.010	1.555
□	45.000	8.130	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

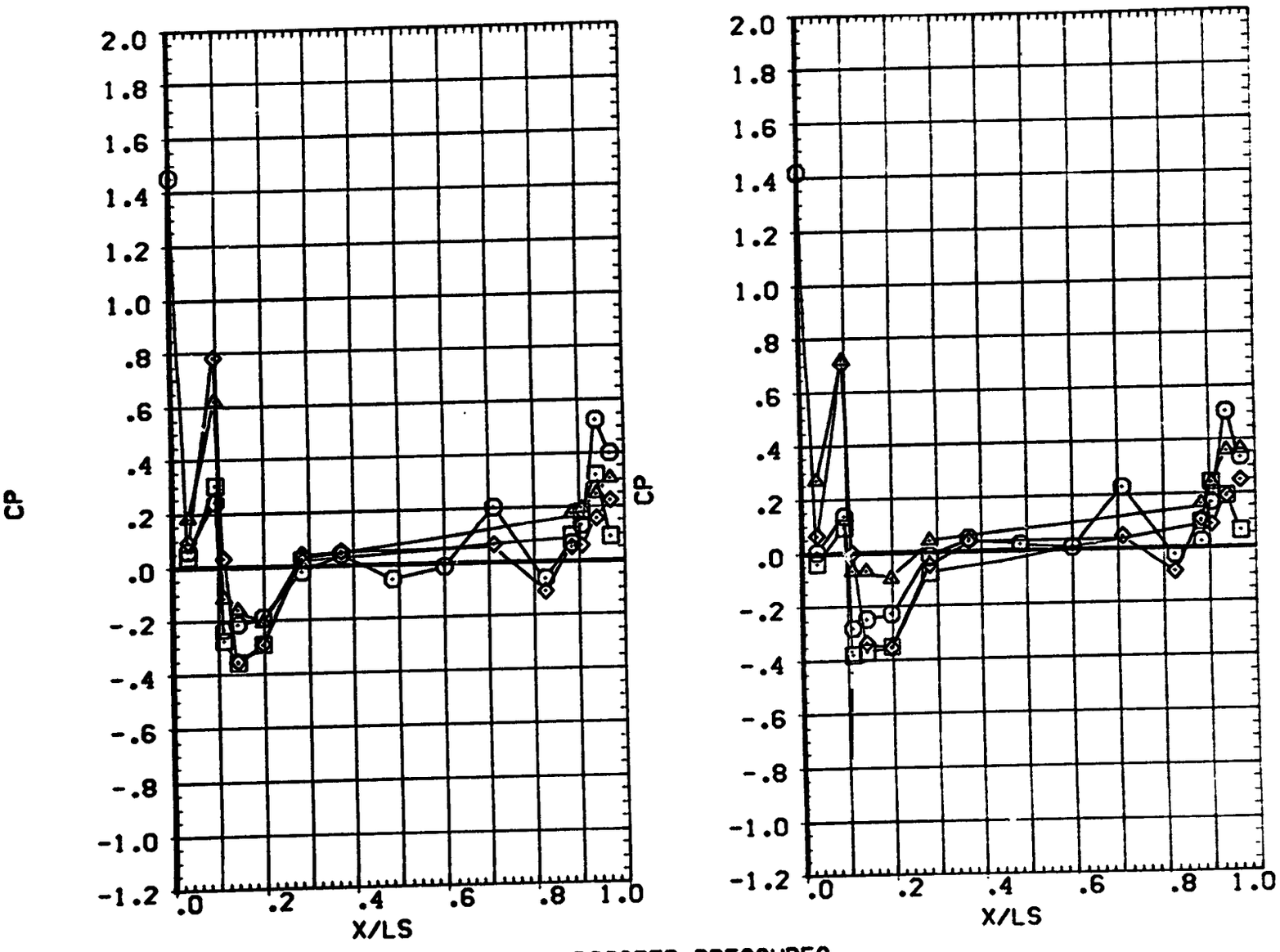
BETAT	.000	ORBINC	.500
ROCKER	.000	ELEVON	.000
ROLLR	.000		



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

SYMBOL	PHI	ALPHAT	MACH
○	180.000	4.010	1.555
□	225.000	8.130	
◇	270.000		
△	315.000		

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



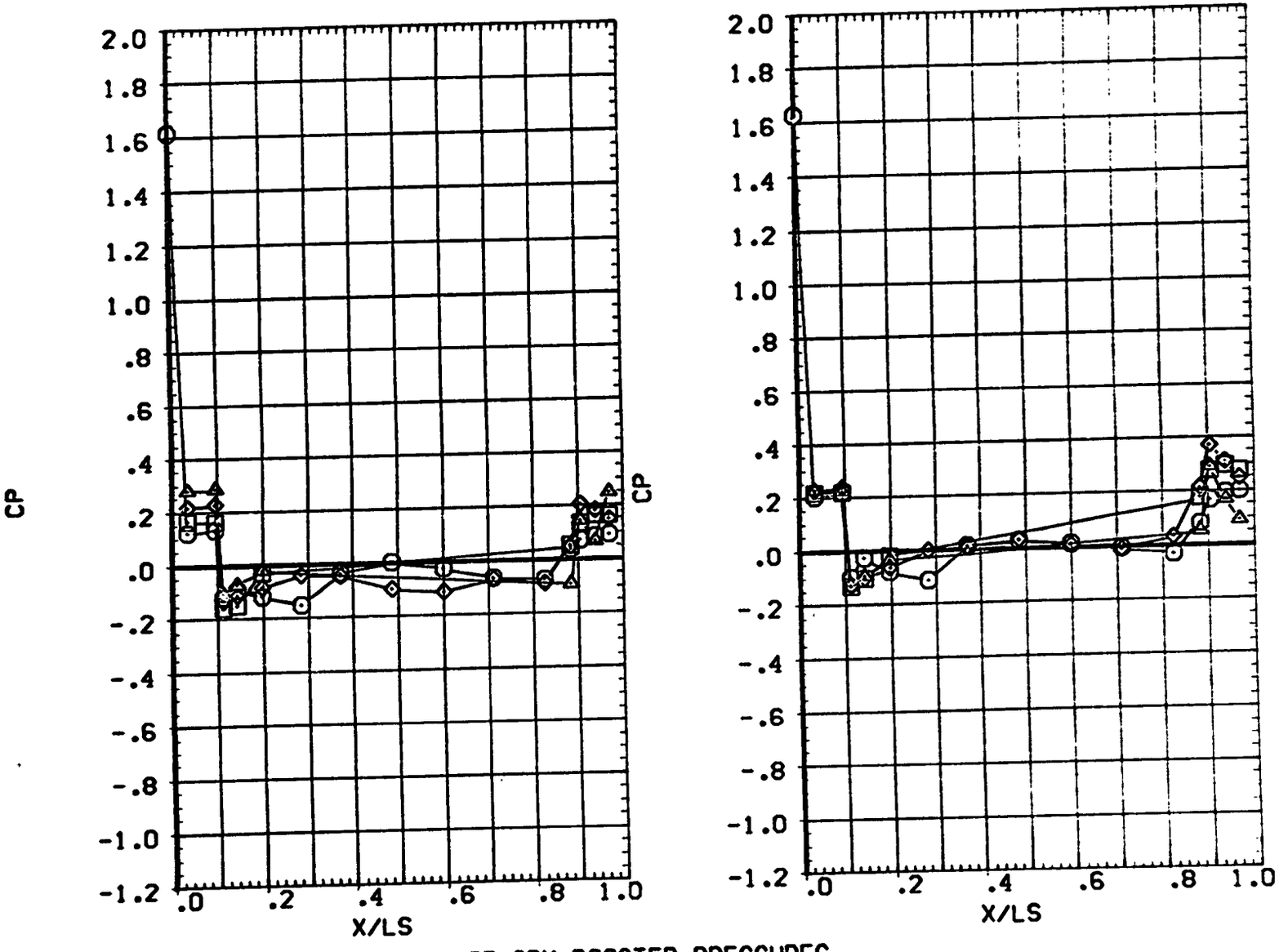
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RBOS01)

SYMBOL	PHI	ALPHAT	MACH
○	.000	-4.250	2.000
□	45.000	-.160	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



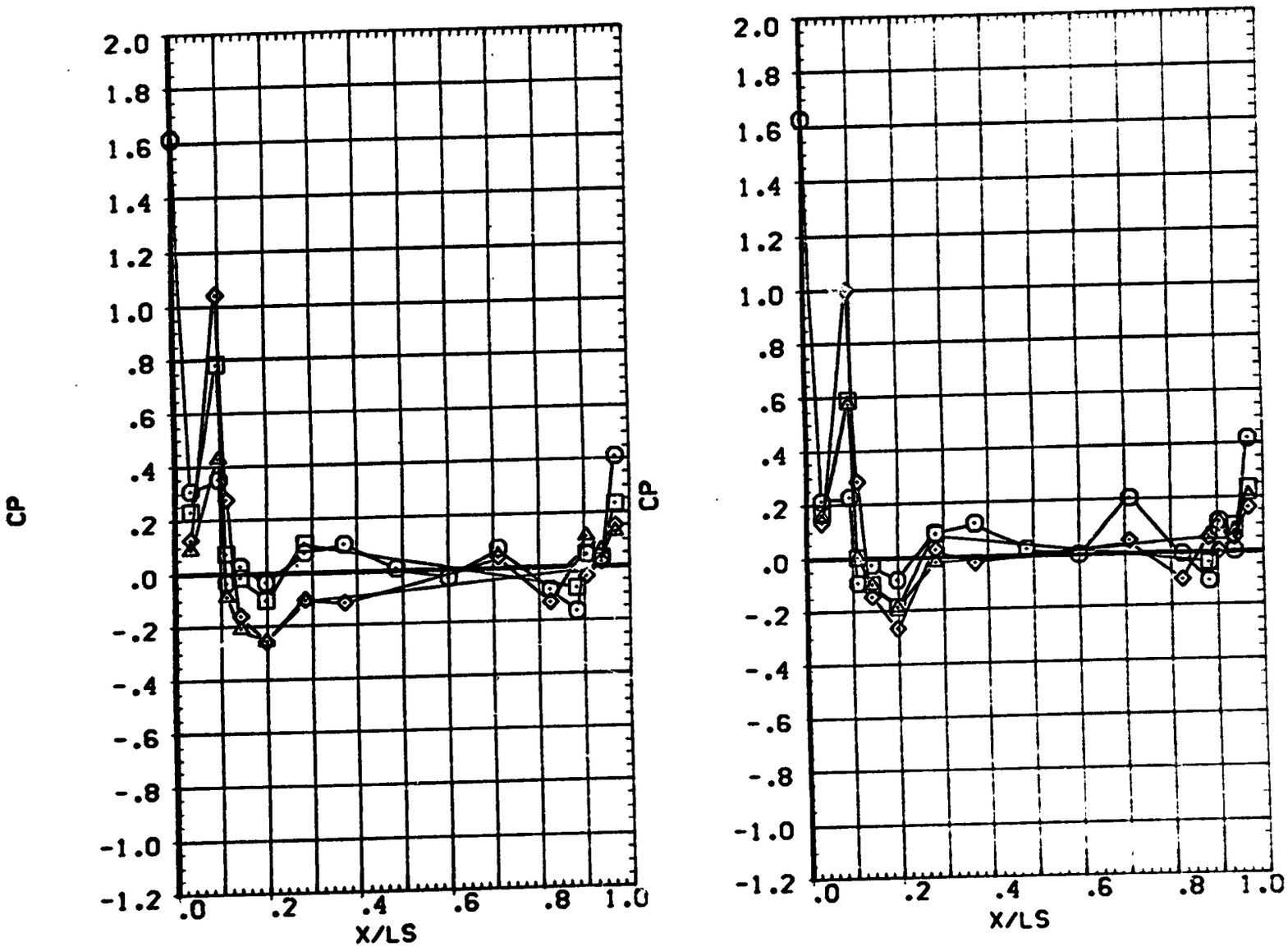
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER [illegible]

SYMBOL	PHI	ALPHAT	MACH
○	180.000	-4.250	2.000
□	225.000	-.160	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



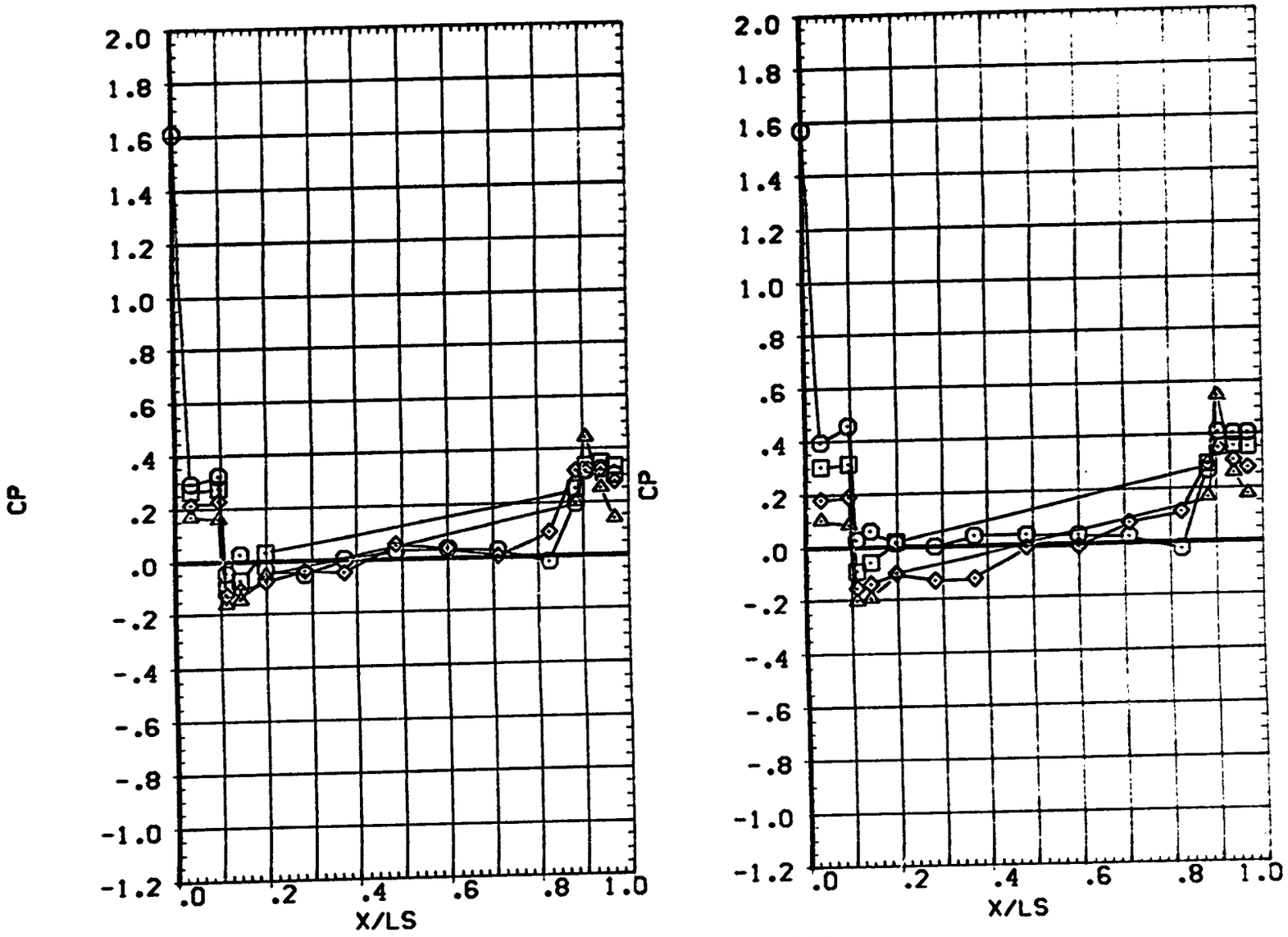
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RB0S01)

SYMBOL	PHI	ALPHAT	MACH
○	.000	3.930	2.000
□	45.000	8.020	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

BETAT	.000	SBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



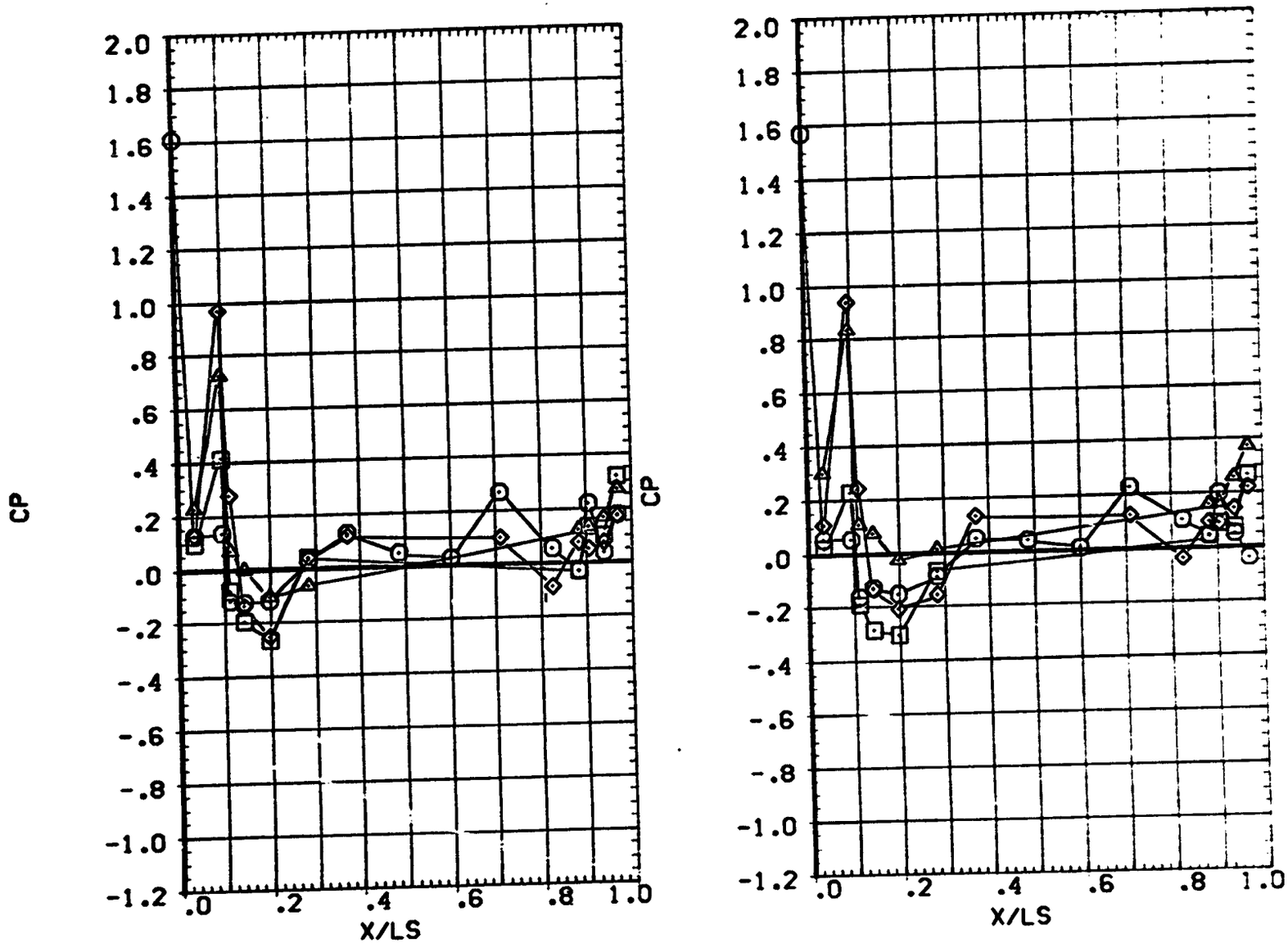
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RBOS01)

SYMBOL	PHI	ALPHAT	MACH
○	180.000	3.930	2.000
□	225.000	8.020	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

BETAT	.000	[illegible]	.500
RUDDER	.000	ELEVON	.000
RUDDLR	.000		



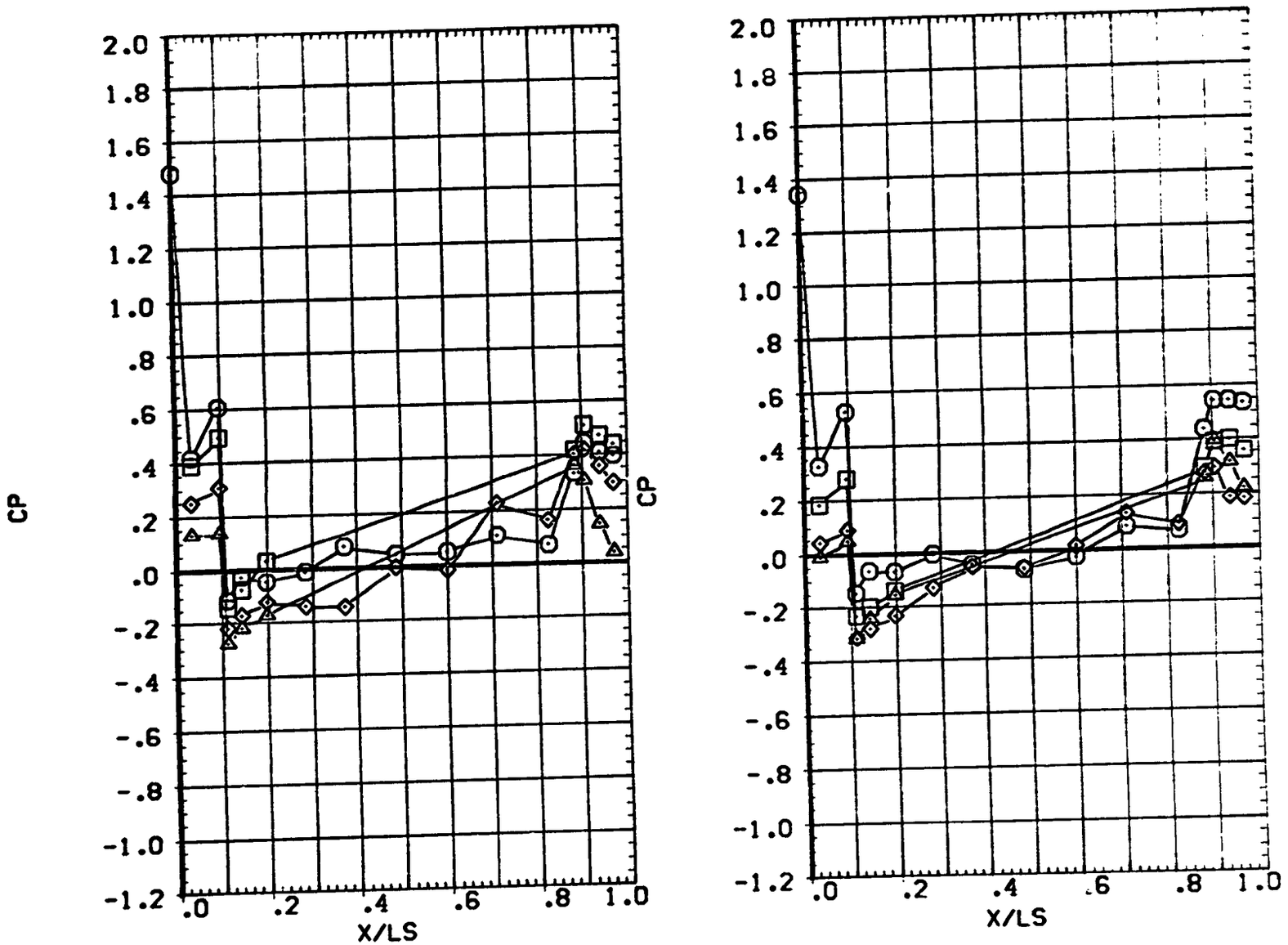
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RB0S02)

SYMBOL	PHI	BETAT	MACH
○	.000	-5.100	1.555
□	45.000	5.110	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	8.000	DRBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



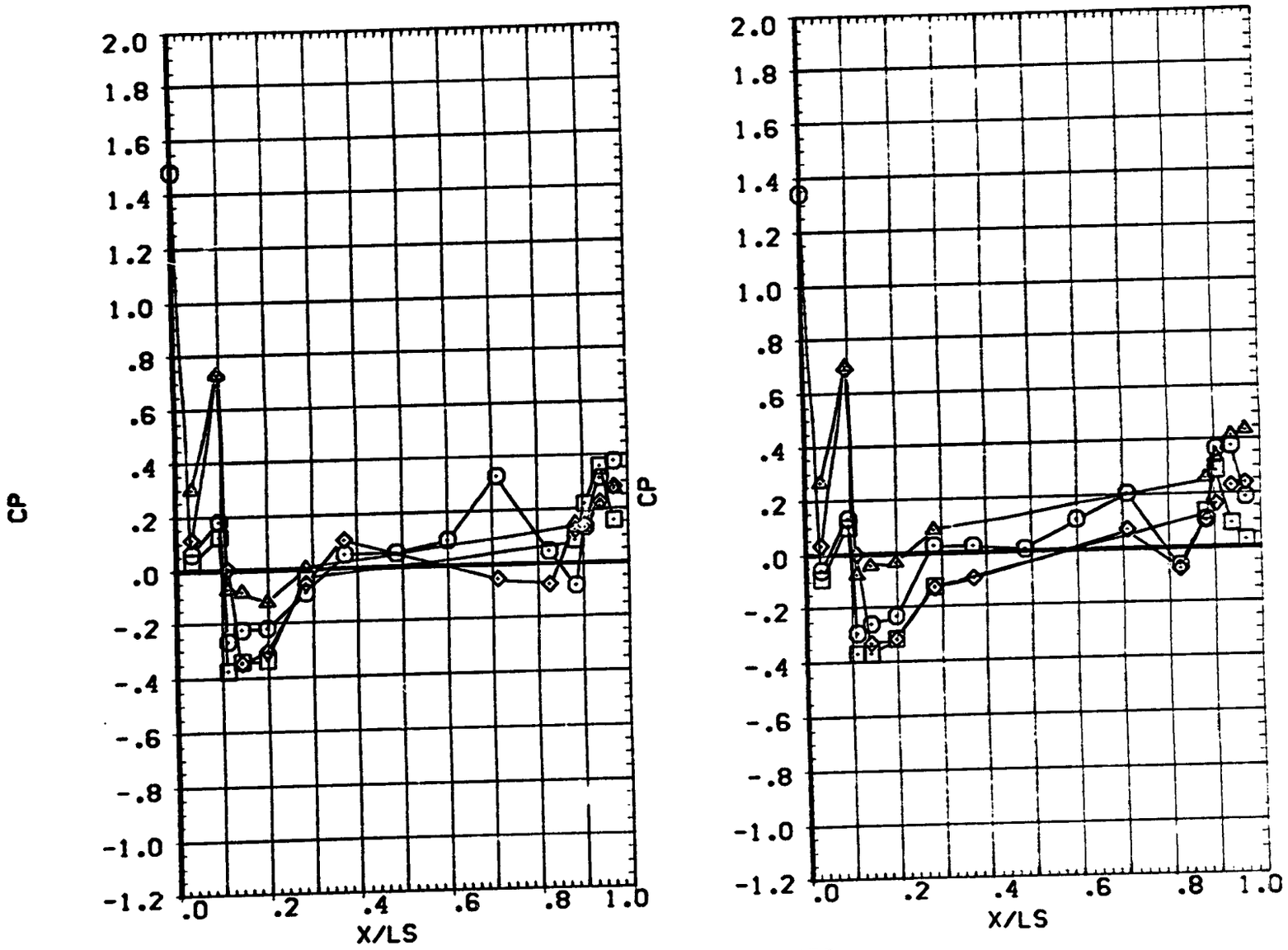
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RB0S02)

SYMBOL	PHI	BETAT	MACH
○	180.000	-5.100	1.555
□	225.000	5.110	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



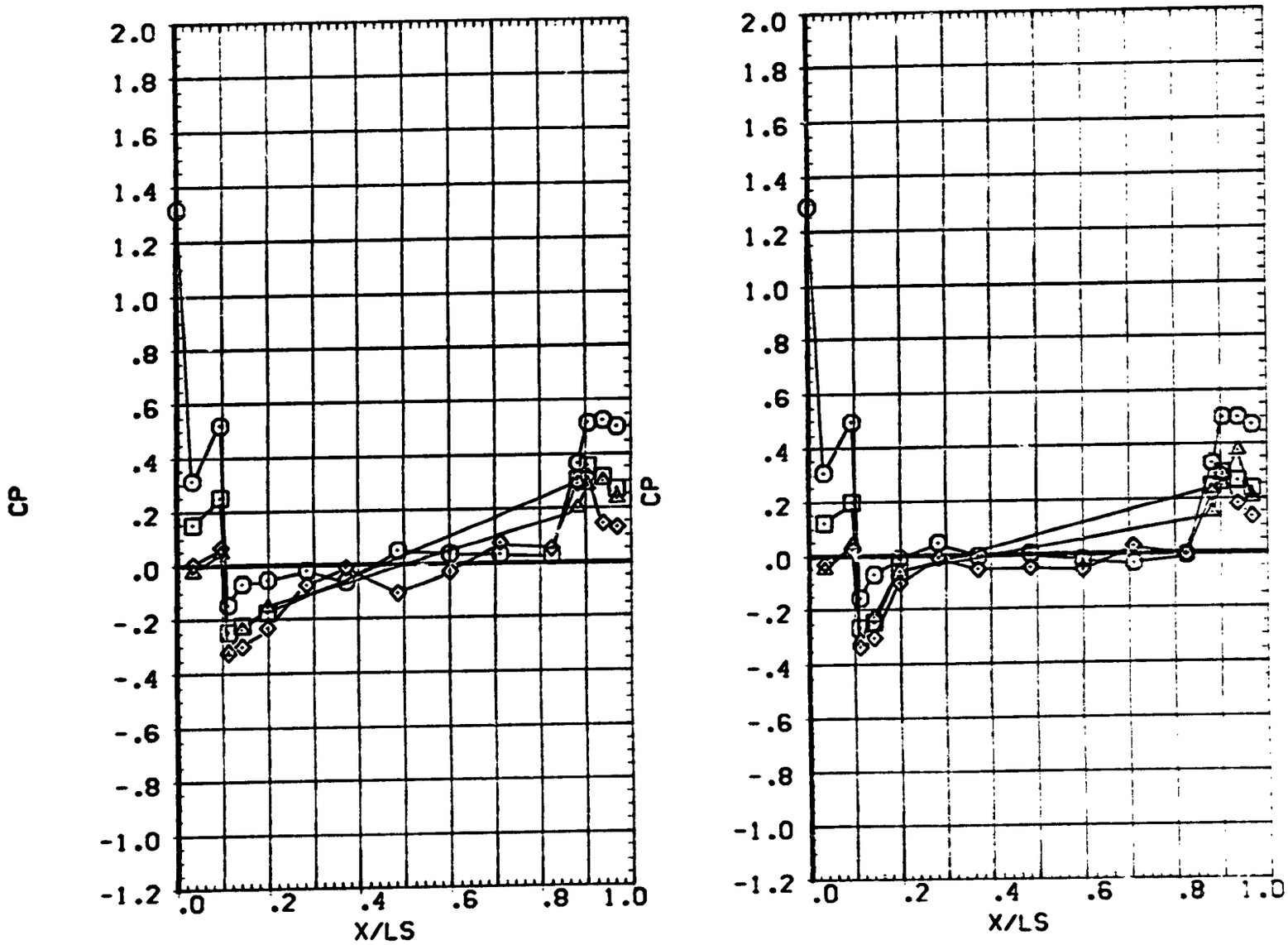
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RB0S02)

SYMBOL	PHI	BETAT	MACH
○	.000	7.140	1.555
□	45.000	9.190	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	8.000	DELINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



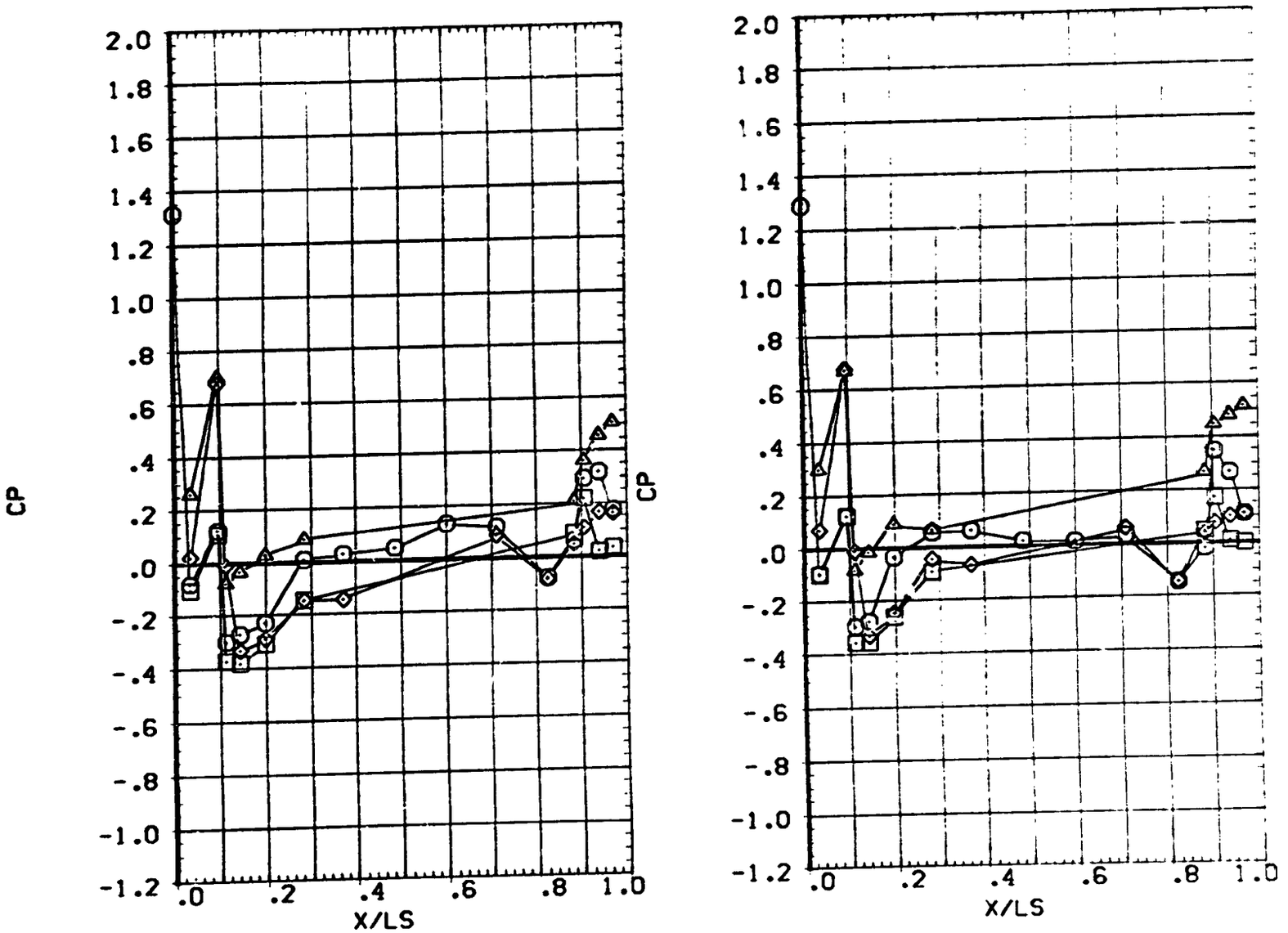
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RBCSC2)

SYMBOL	PHI	BETAT	MACH
○	180.000	7.140	1.555
□	225.000	9.190	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

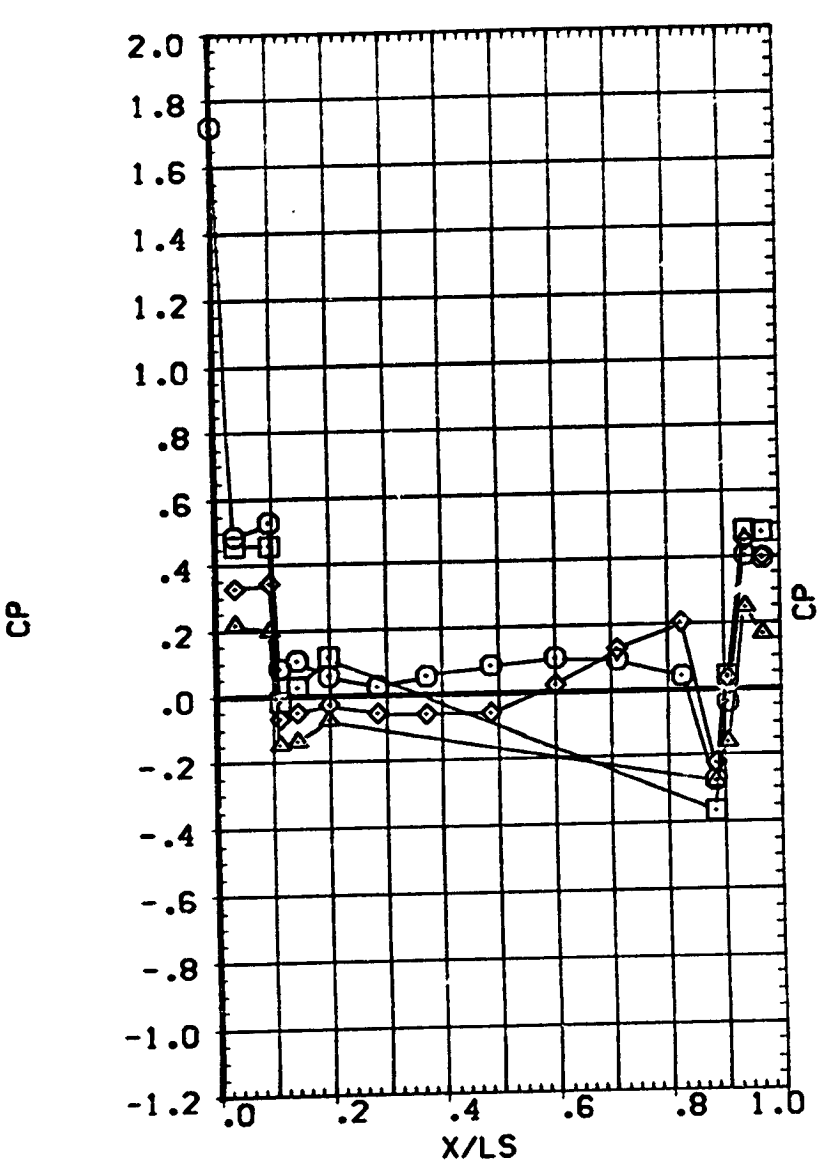
PAGE 182

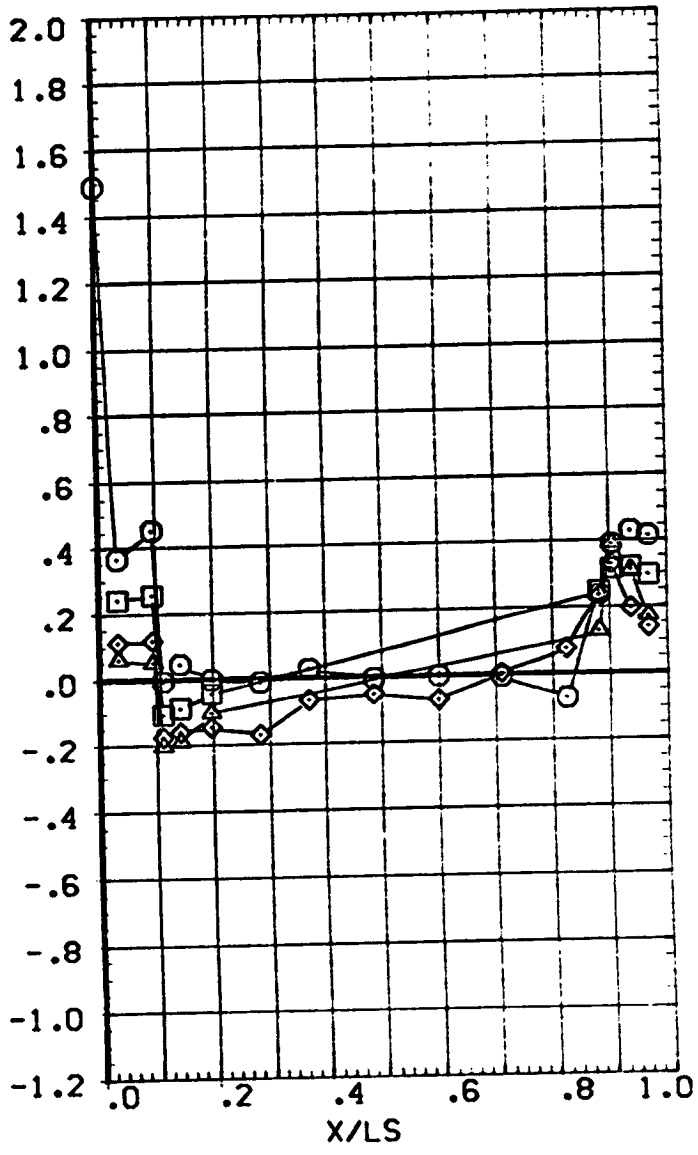
AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RB0S02)

SYMBOL	PHI	BETAT	MACH
○	.000	-6.270	2.000
◇	45.000	3.990	
□	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

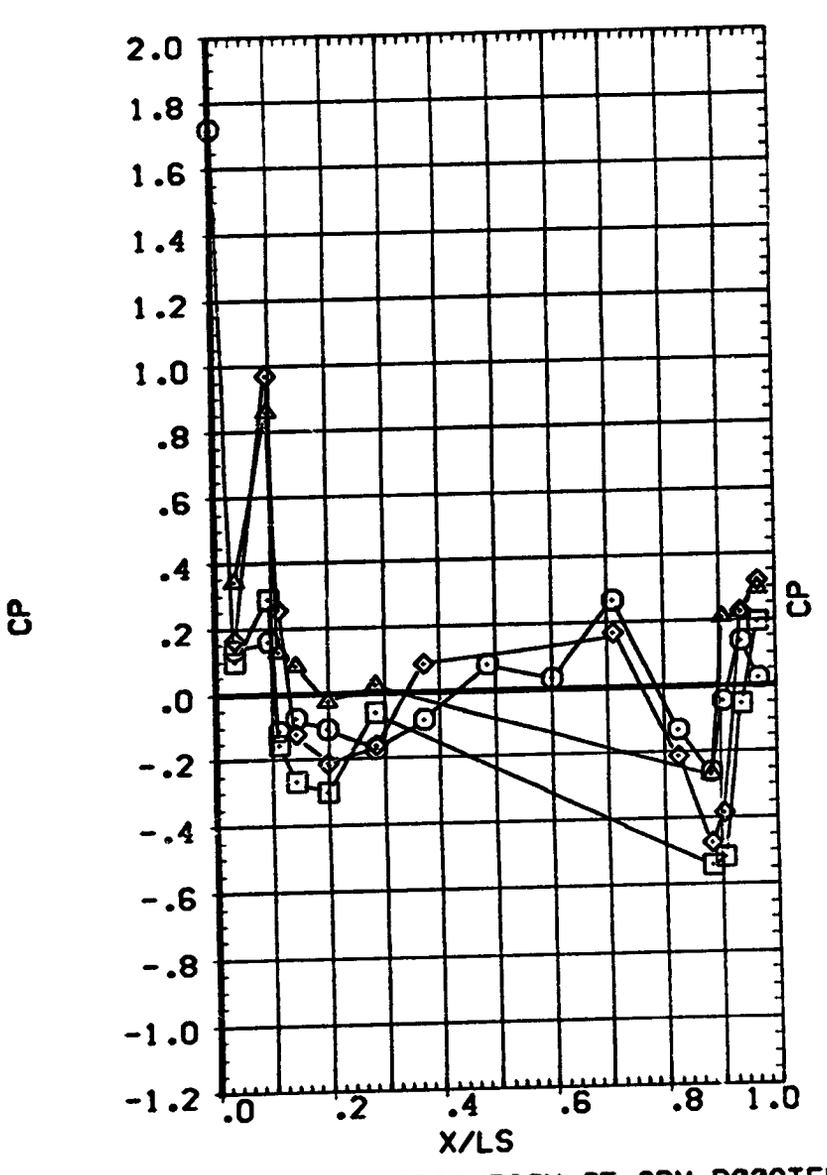


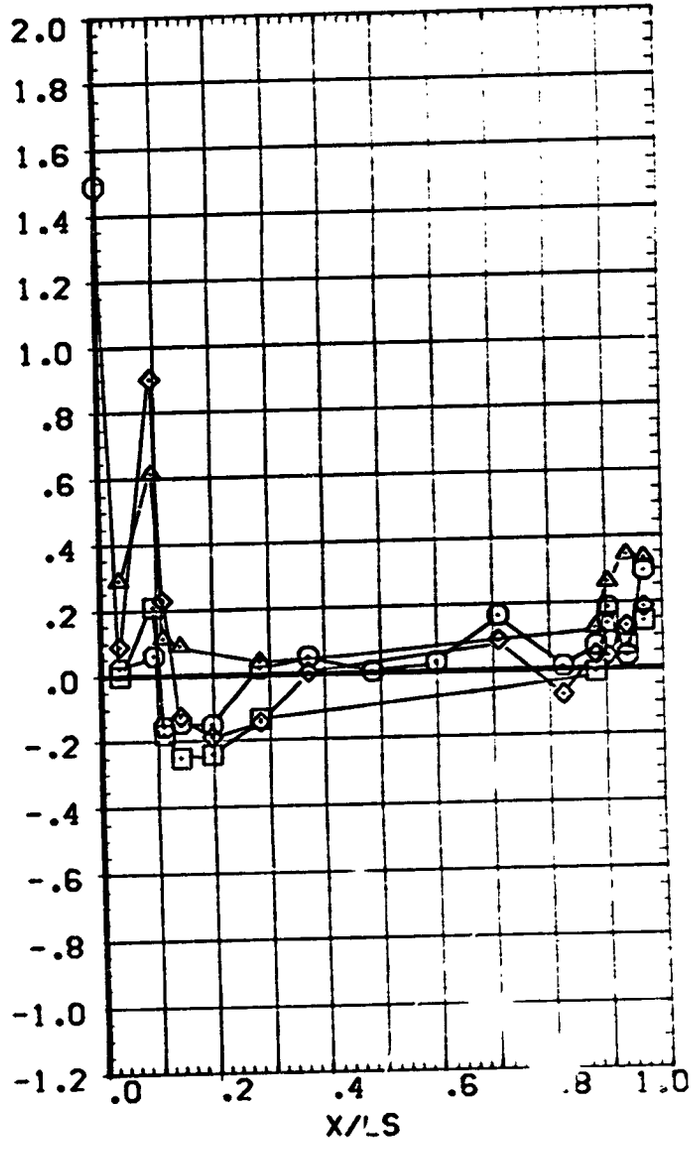


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

SYMBOL	PHI	BETAT	MACH
○	180.000	-6.270	2.000
□	225.000	3.990	
◇	270.000		
△	315.000		

ALPHAT	8.000	[illegible]	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		





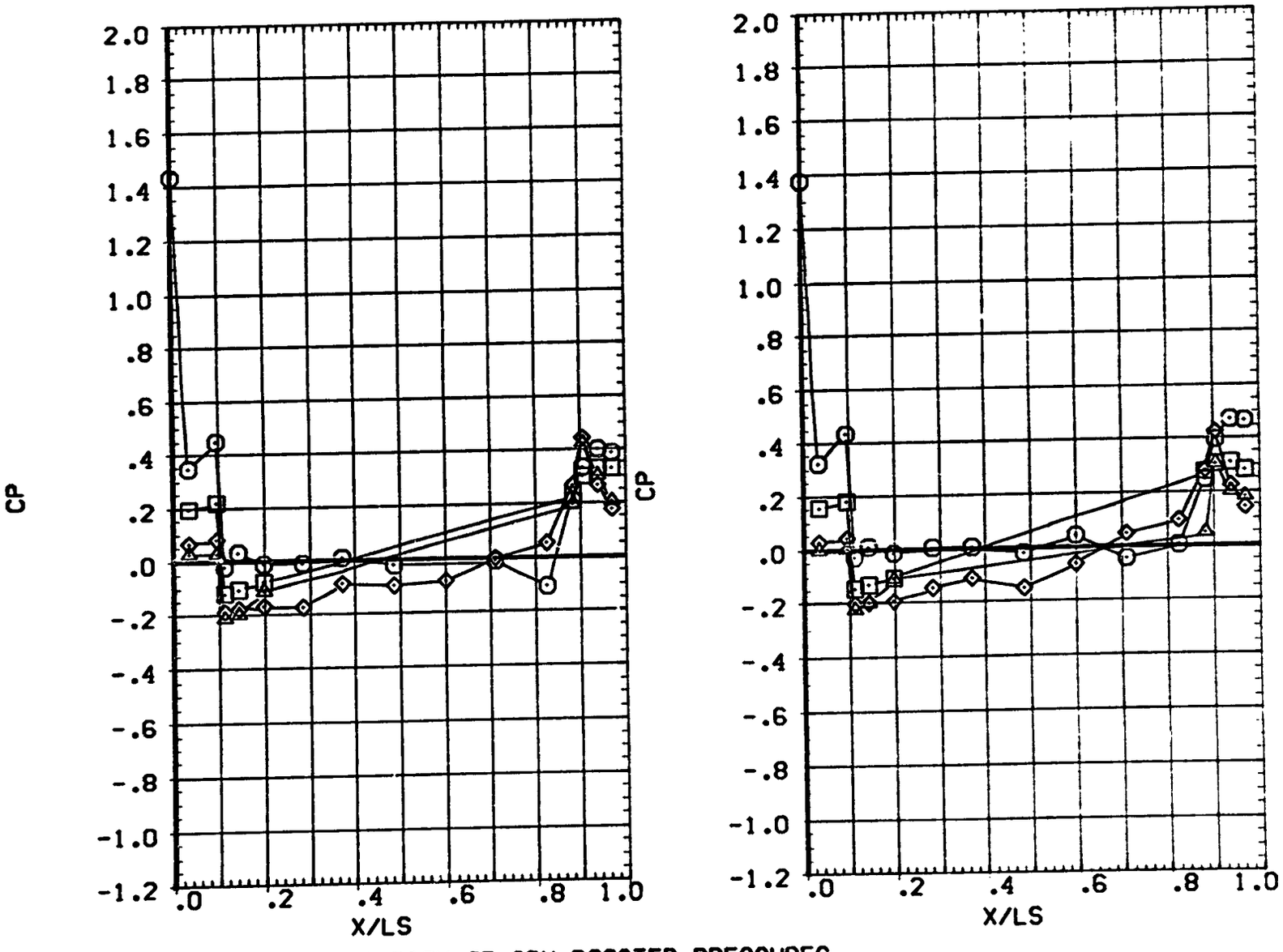
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RBOS02)

SYMBOL	PHI	BETAT	MACH
○	.000	6.060	2.000
□	45.000	8.120	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

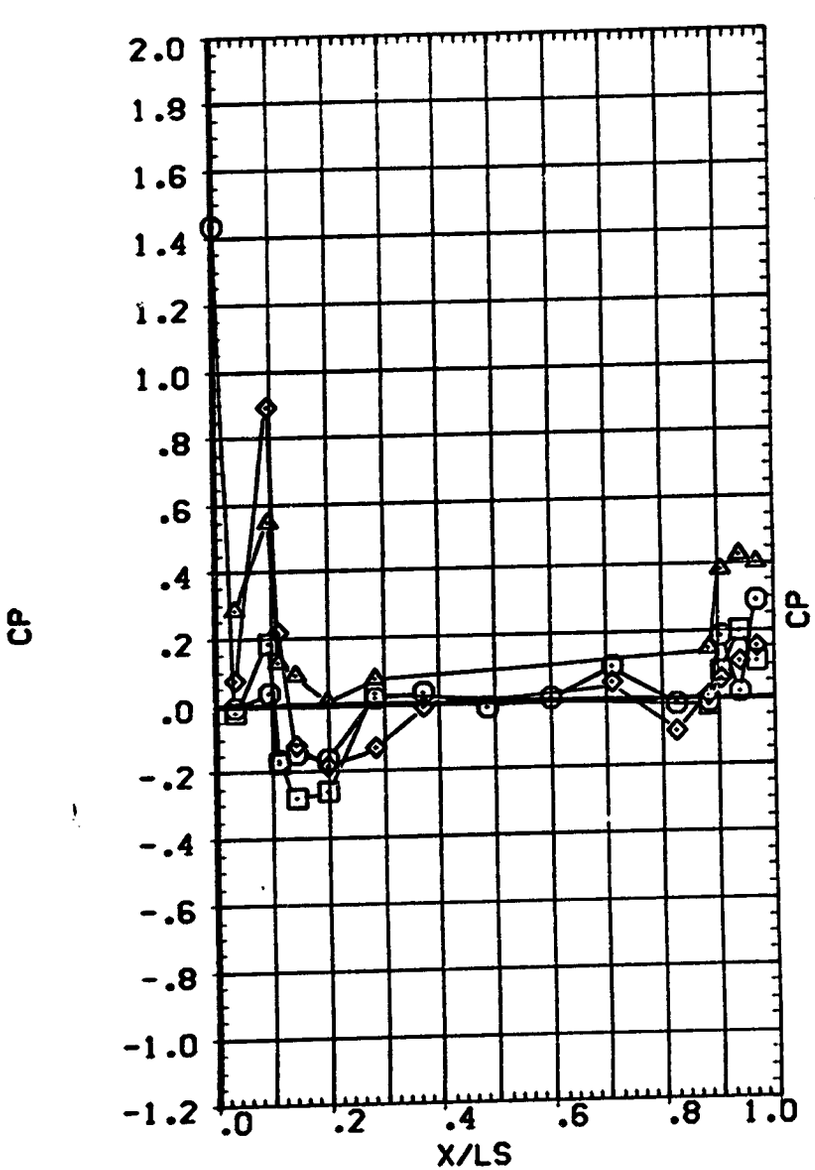
ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

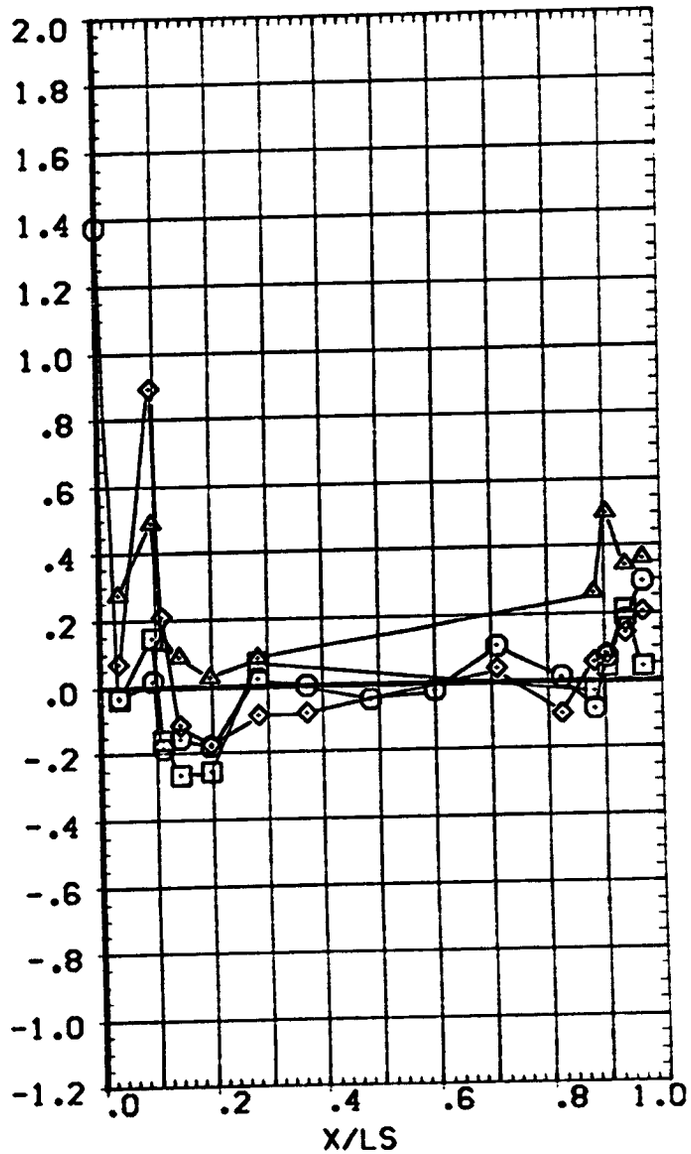


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

○	180.000	6.060	2.000				
□	225.000	8.120					
◇	270.000						
△	315.000						

RUDDER	.000	ELEVON	.000
RUDFLR	.000		





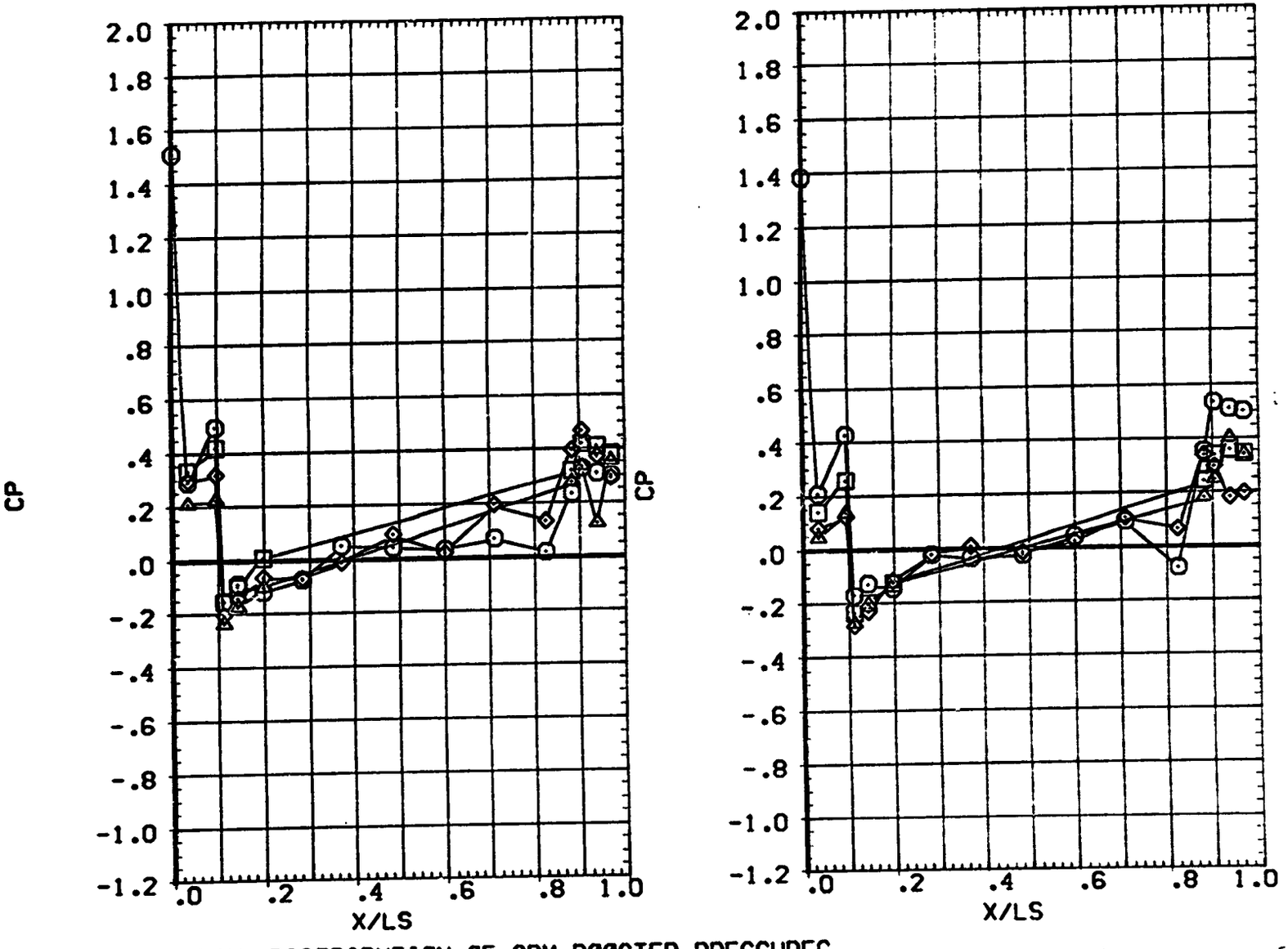
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RB0S04)

SYMBOL	PHI	BETAT	MACH
○	.000	-5.070	1.555
□	45.000	5.060	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

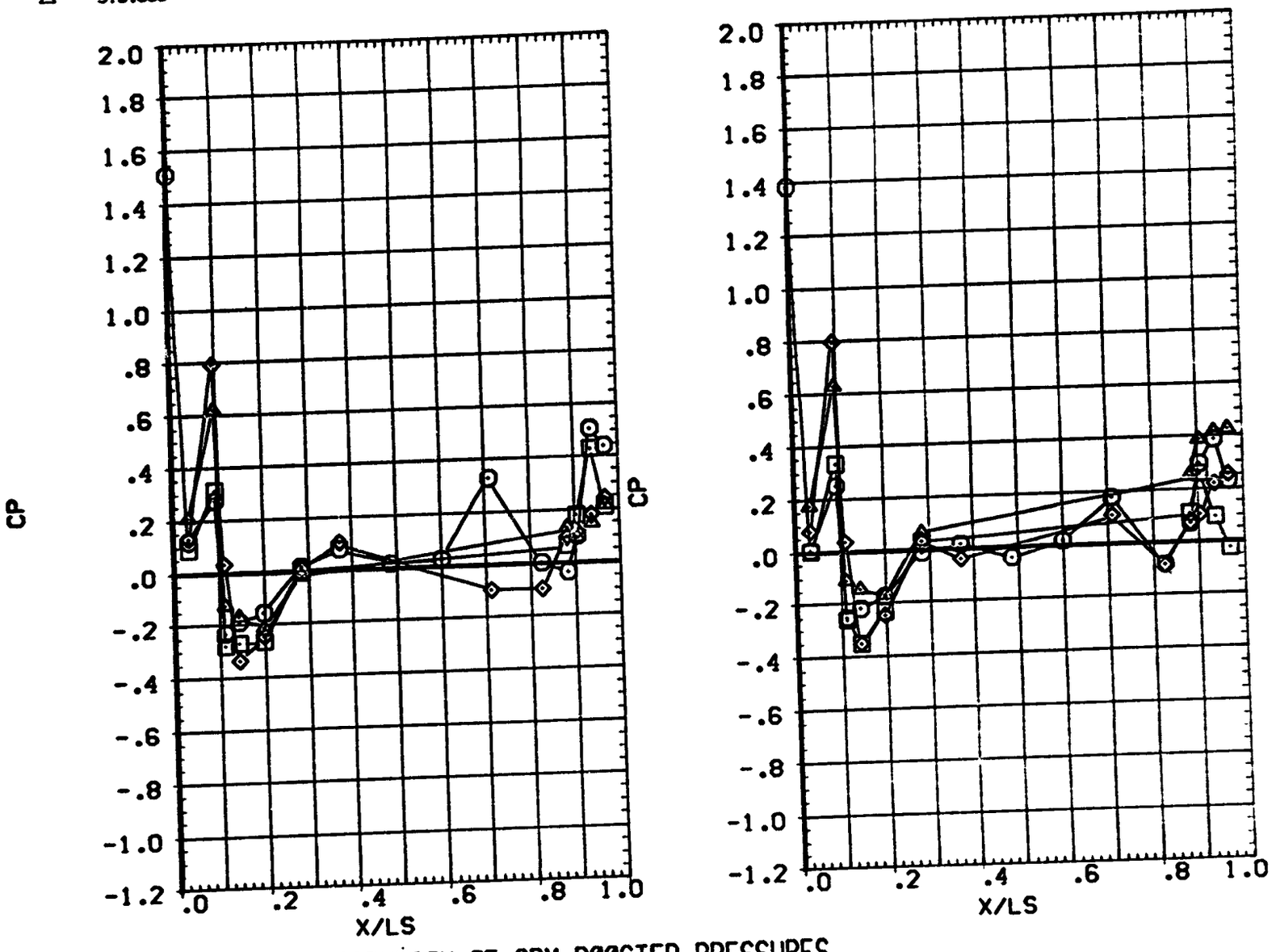
ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

SYMBOL	PHI	BETAT	MACH
○	180.000	-5.070	1.555
□	225.000	5.060	
◇	270.000		
△	315.000		

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



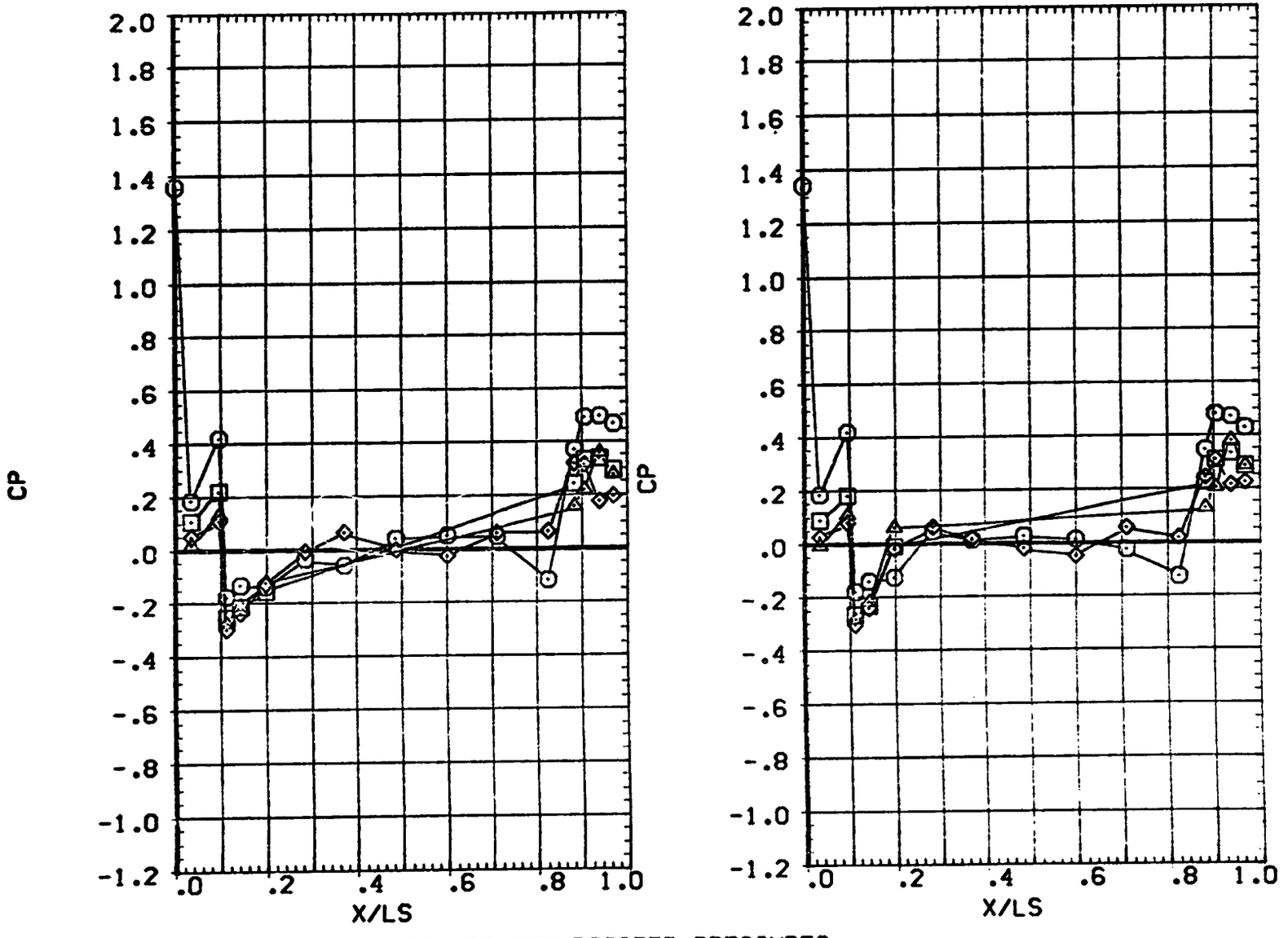
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER (RBCSC4)

SYMBOL	PHI	BETAT	MACH
○	.000	7.080	1.555
□	45.000	9.100	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVCN	.000
RUDFLR	.000		

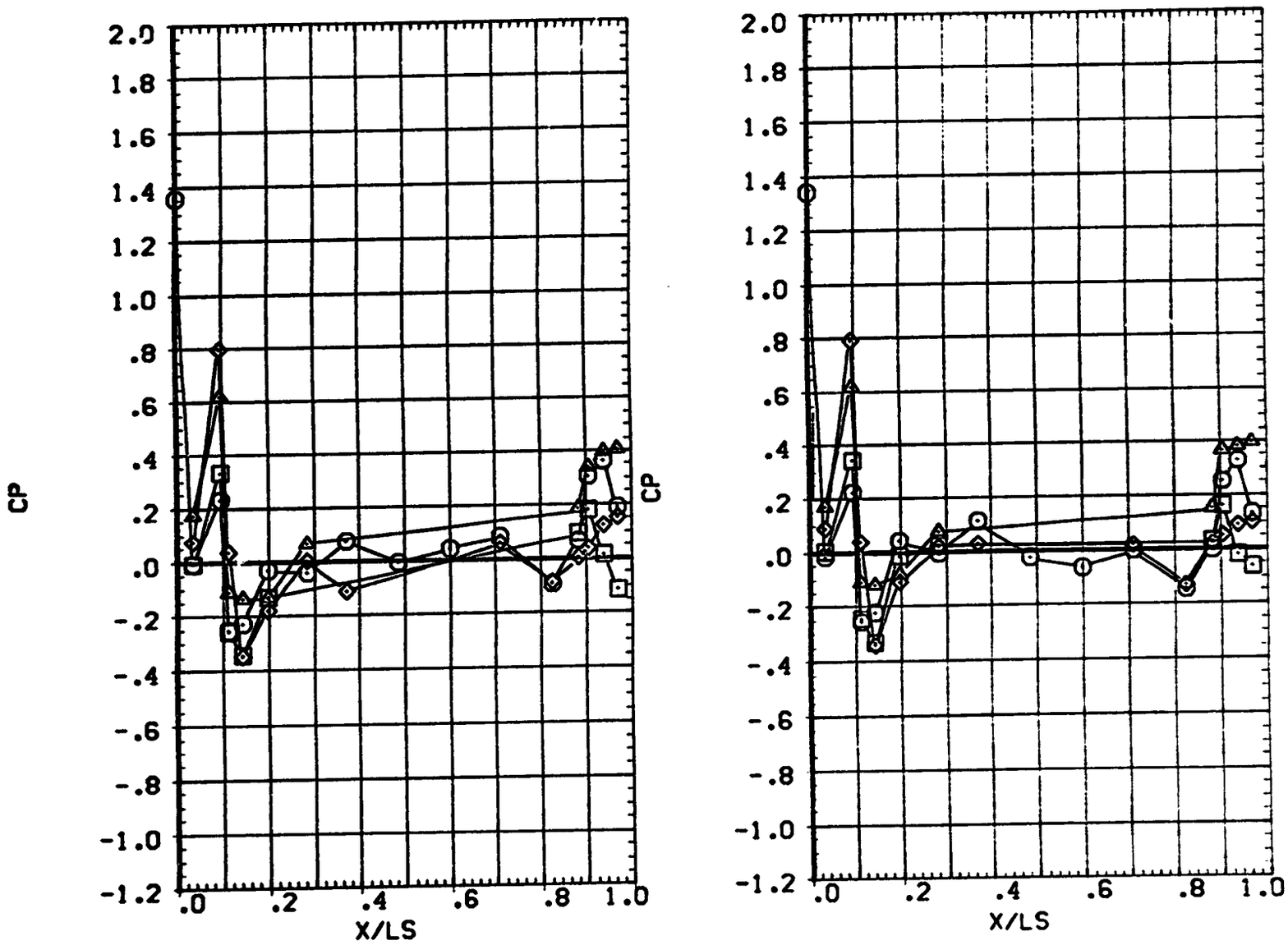


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

SYMBOL	PHI	BETAT	MACH
○	180.000	7.080	1.555
□	225.000	9.100	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



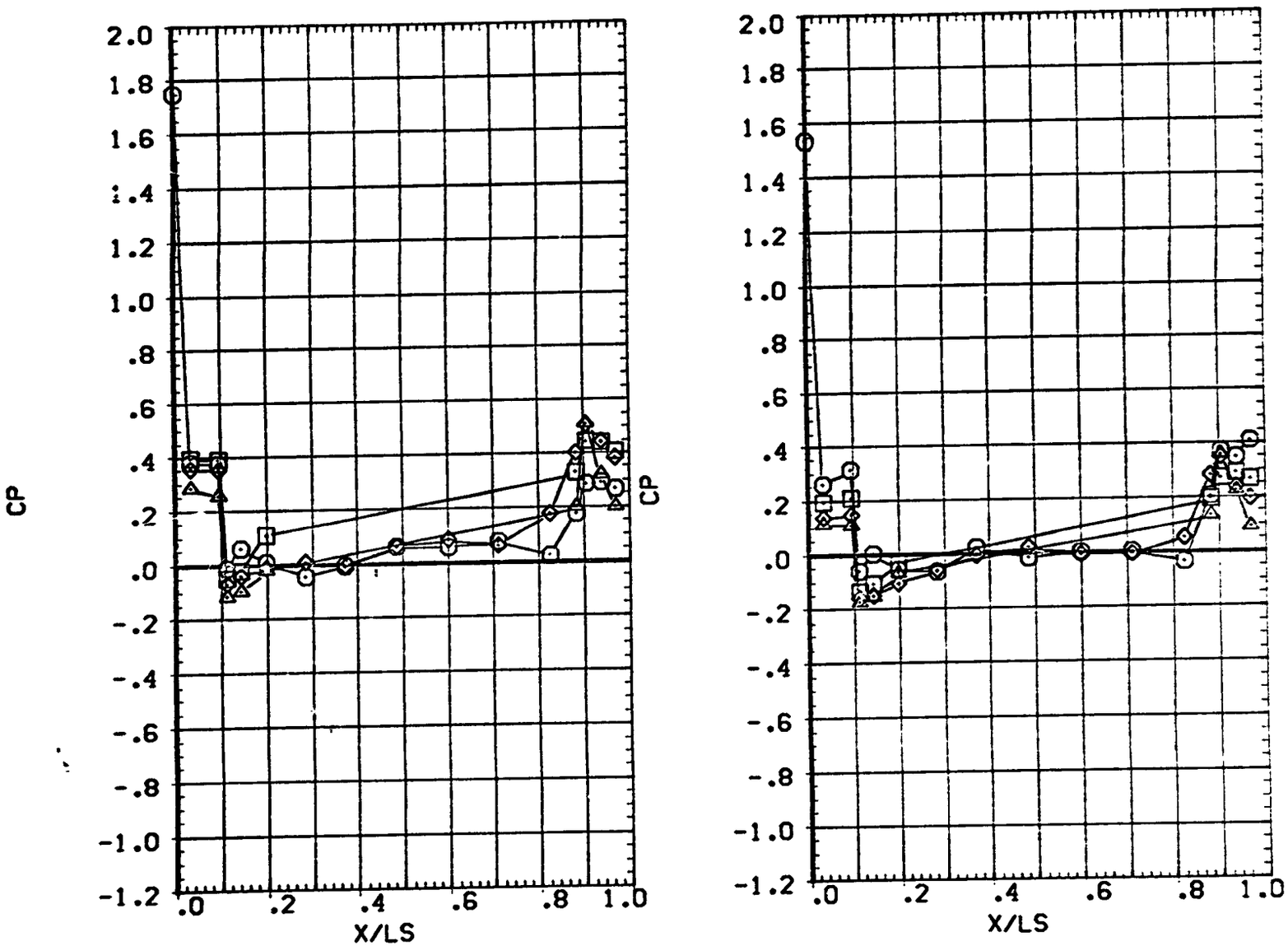
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 C2A + S3 + T9 SRM BOOSTER (R30S04)

SYMBOL	PHI	BETAT	MACH
○	.000	-6.240	2.000
□	45.000	3.950	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



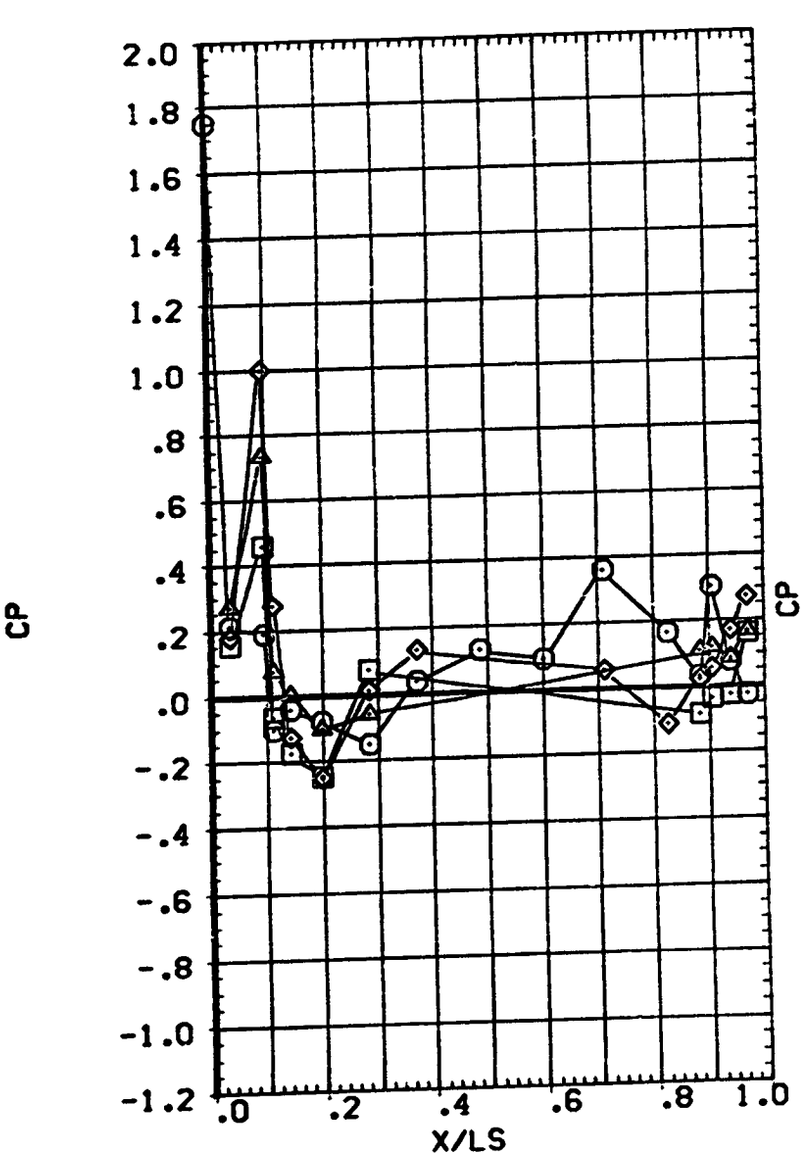
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

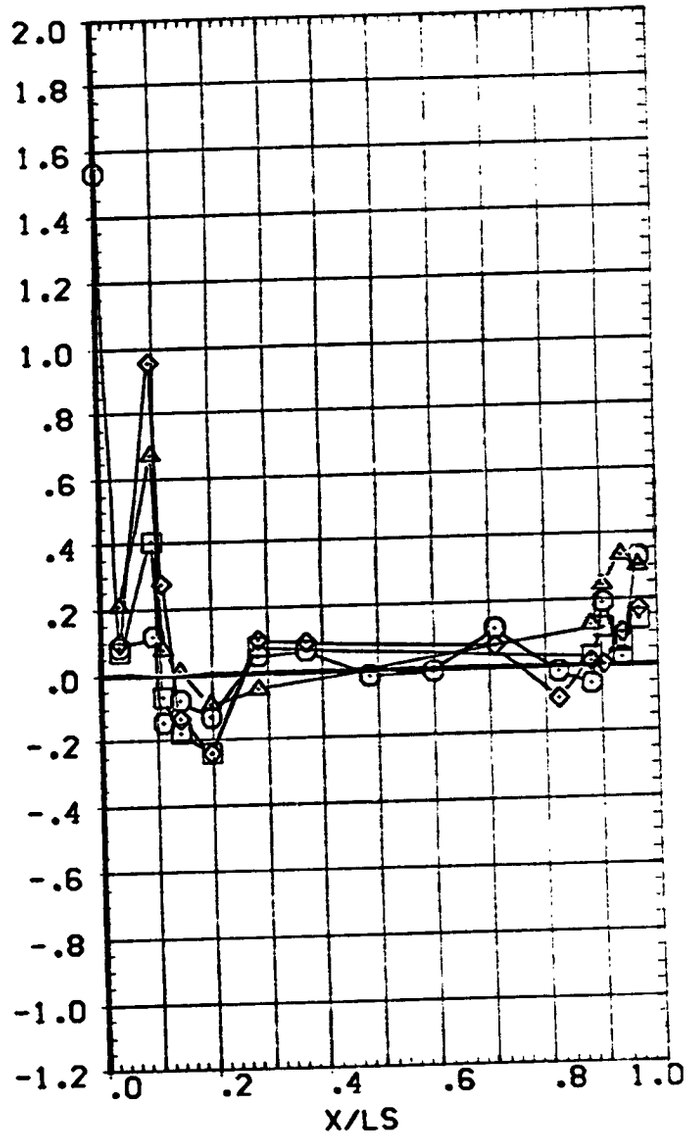
AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER [RBUSU4]

SYMBOL	PHI	BETAT	MACH
○	180.000	-6.240	2.000
□	225.000	3.950	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHAT	4.000	SPOINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		





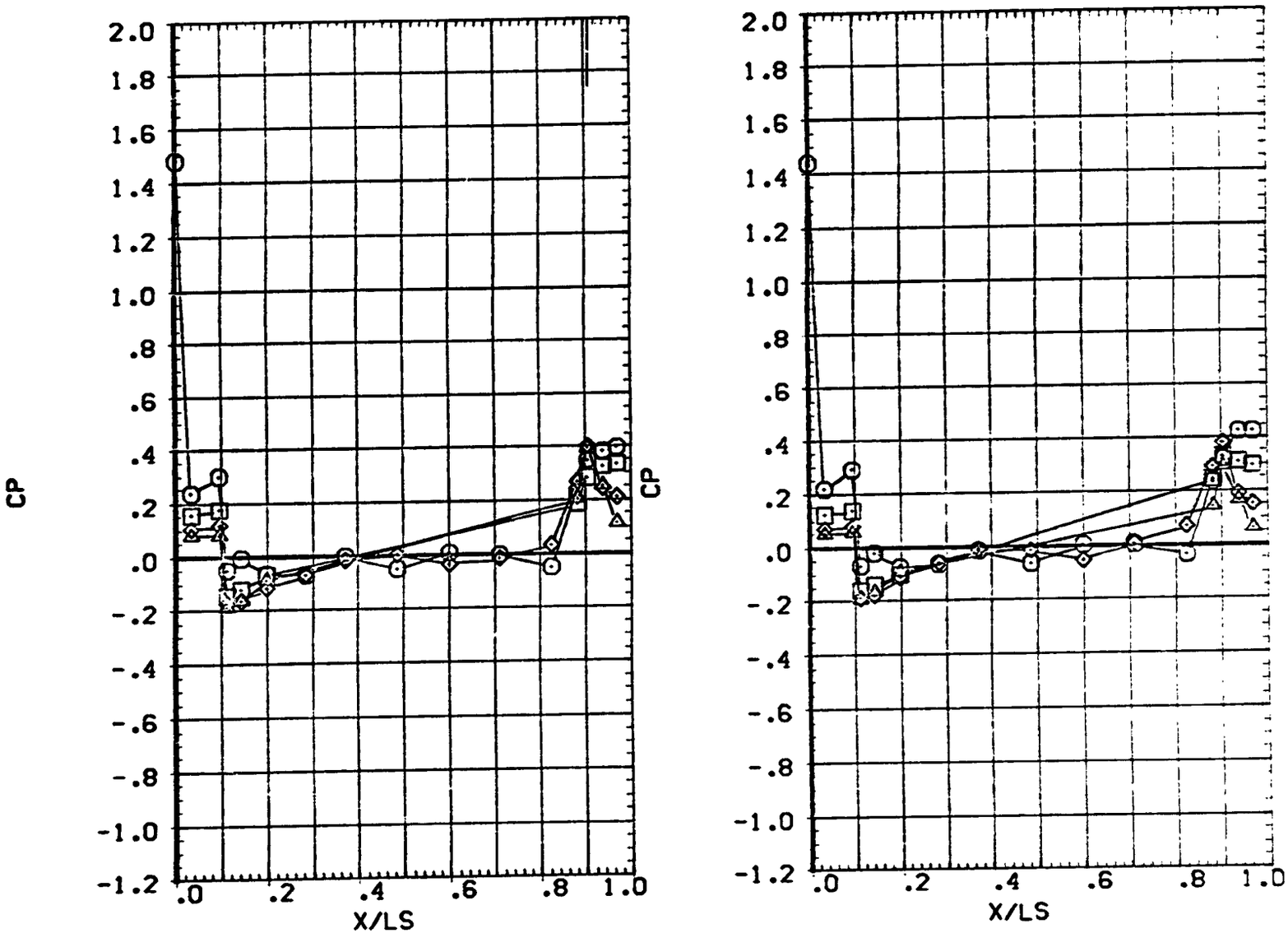
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RB0S04)

SYMBOL	PHI	BETAT	MACH
○	.000	5.990	2.000
□	45.000	8.030	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	4.000	SPOINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



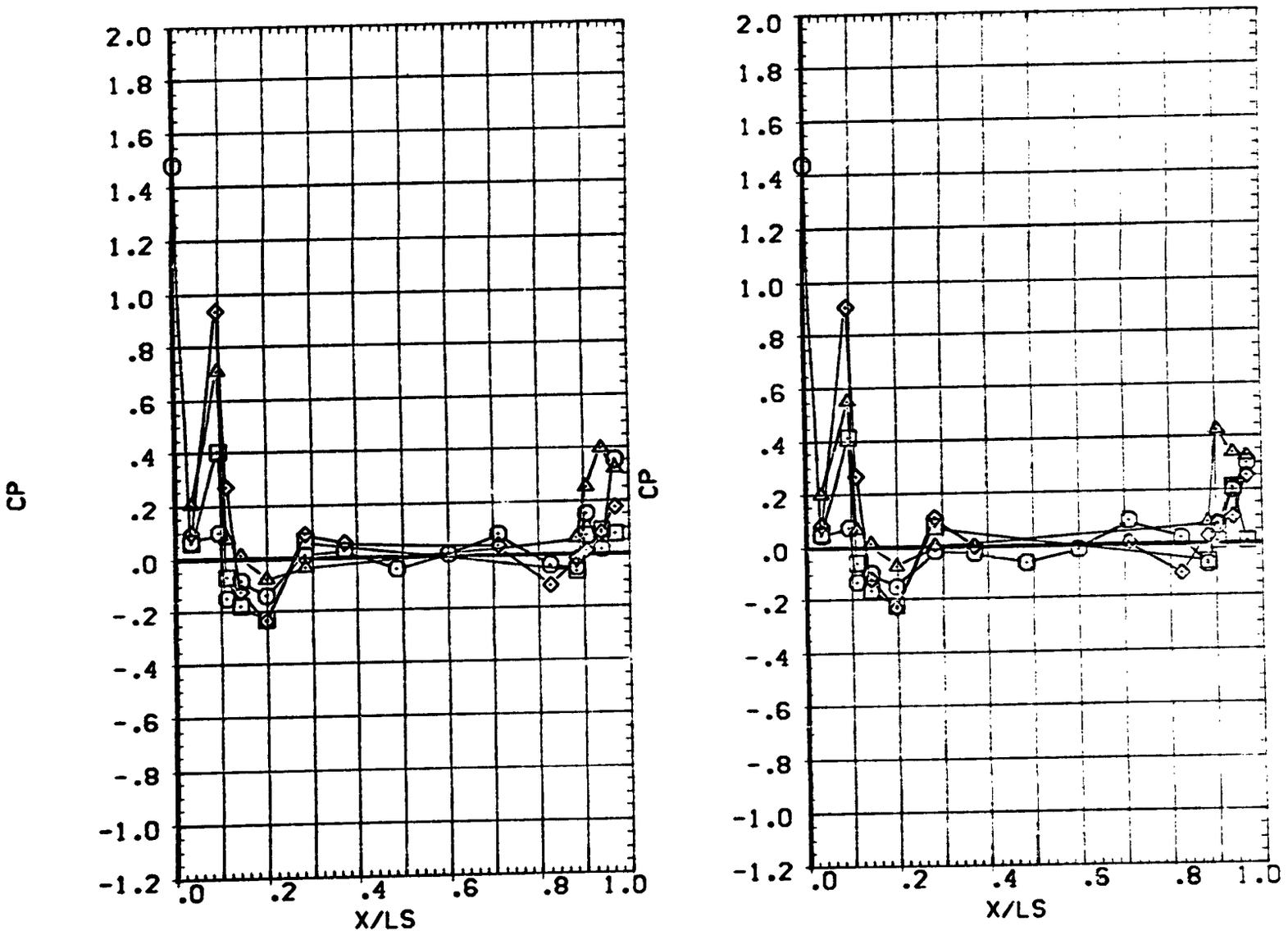
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RBOS04)

SYMBOL	PHI	BETAT	MACH
○	180.000	5.990	2.000
□	225.000	8.030	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHAT	4.000	SPRINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



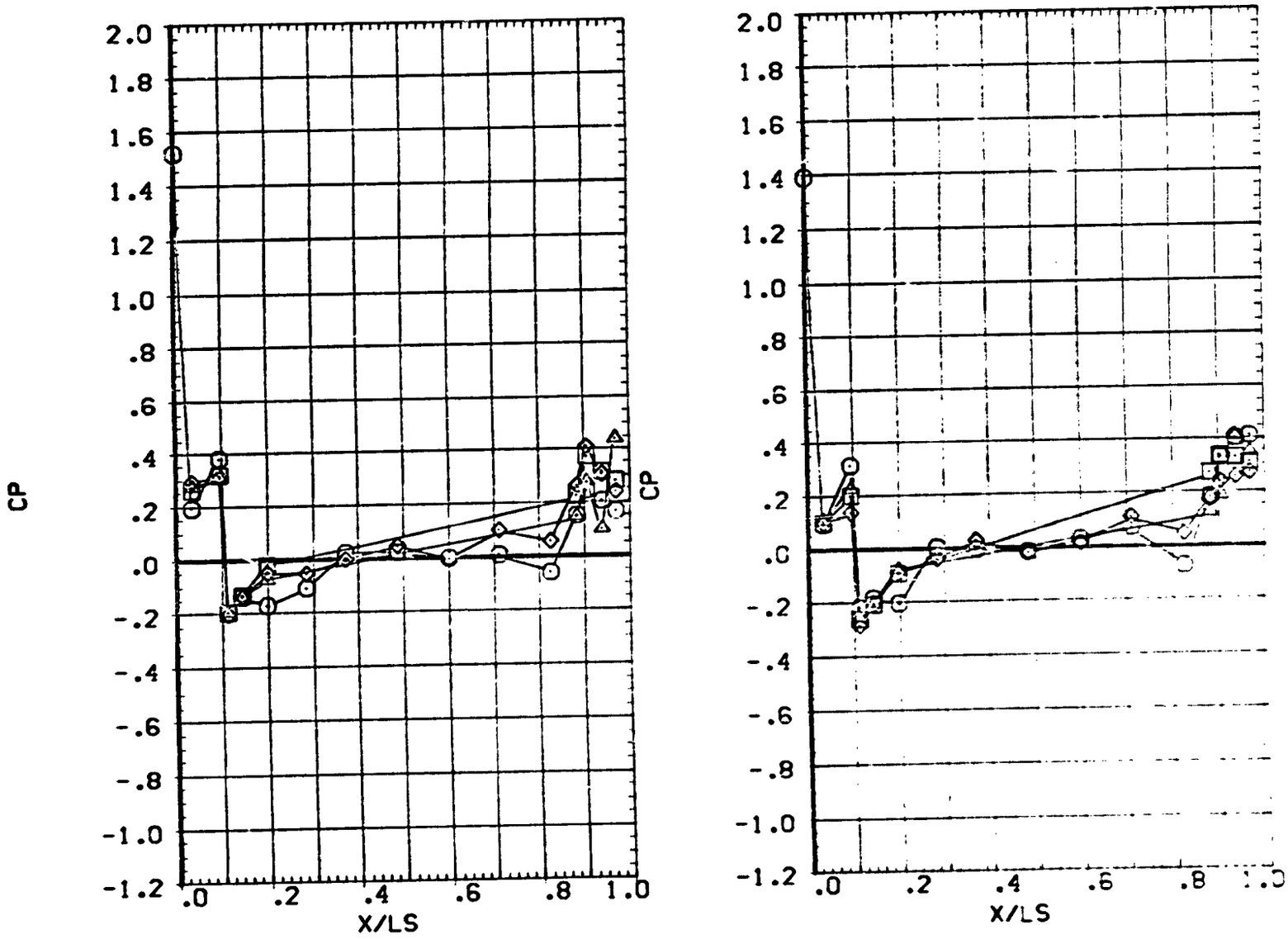
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RBOS06)

SYMBOL	PHI	BETAT	MACH
○	.000	-5.080	1.555
□	45.000	5.050	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	DRBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



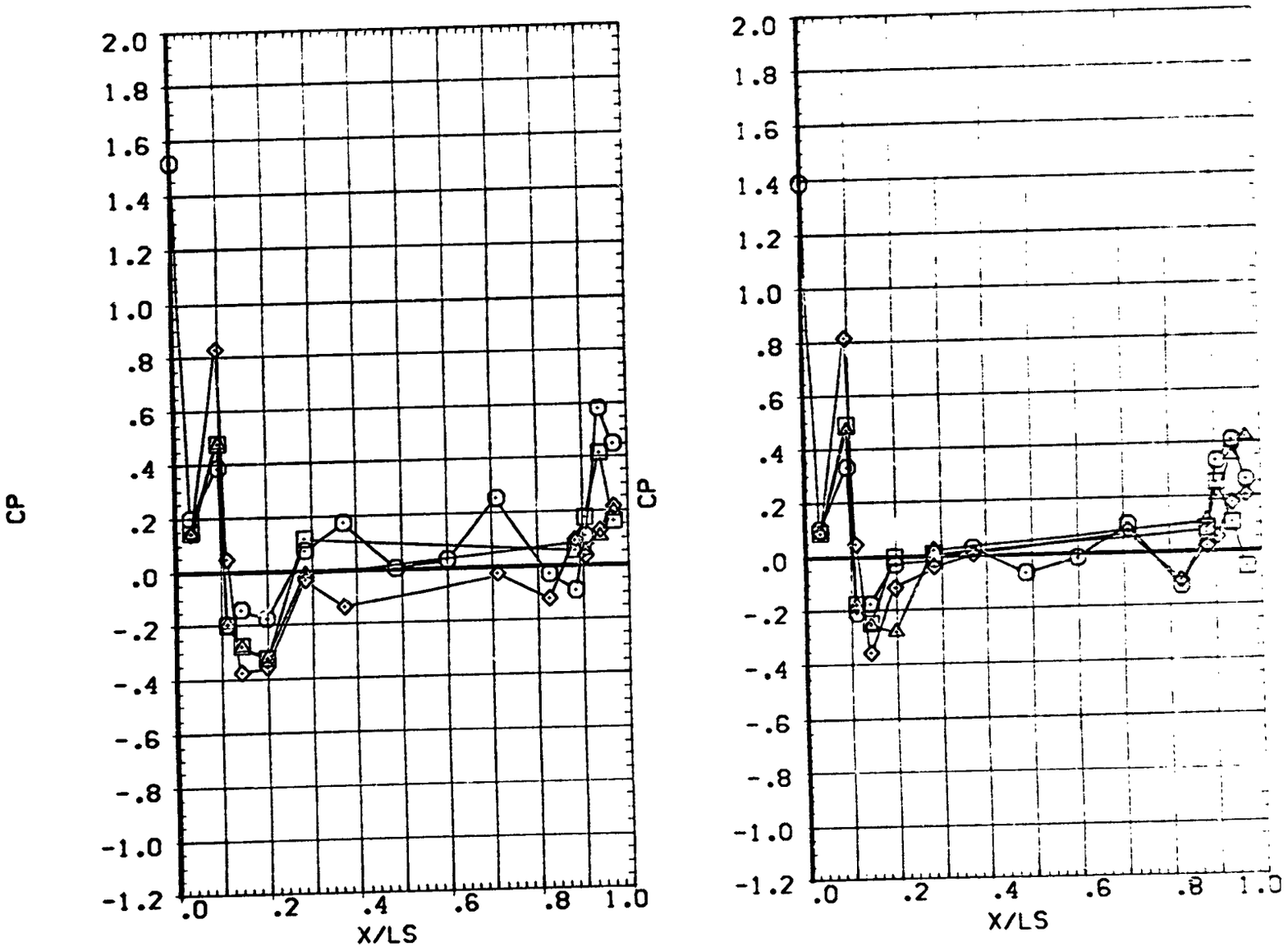
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RBCSC6)

SYMBOL	PHI	BETAT	MACH
○	180.000	-5.080	1.555
□	225.000	5.050	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHAT	.000	[illegible]	[illegible]
RUDDER	.000	[illegible]	.000
ROTOR	.000		



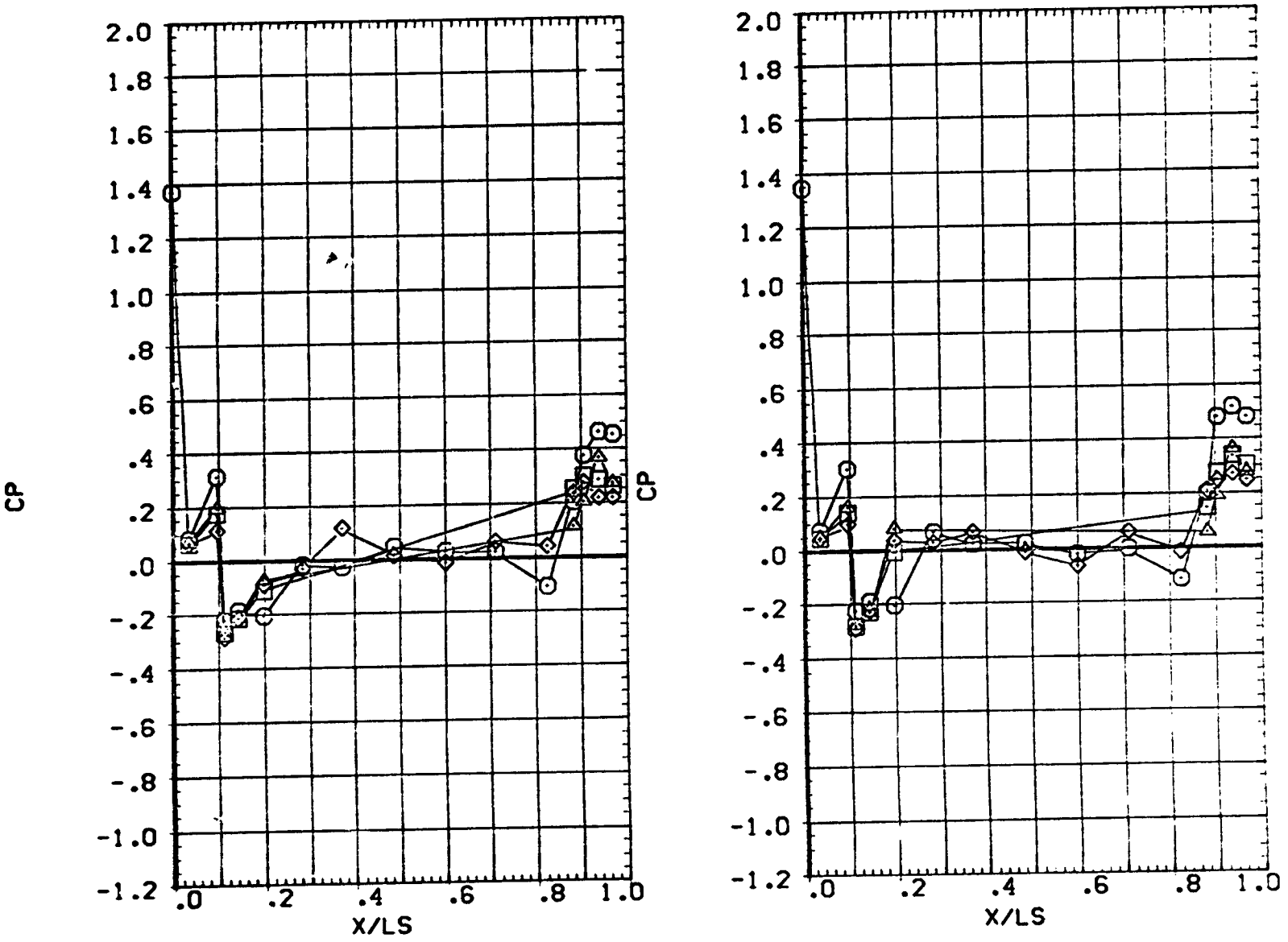
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RB0S06)

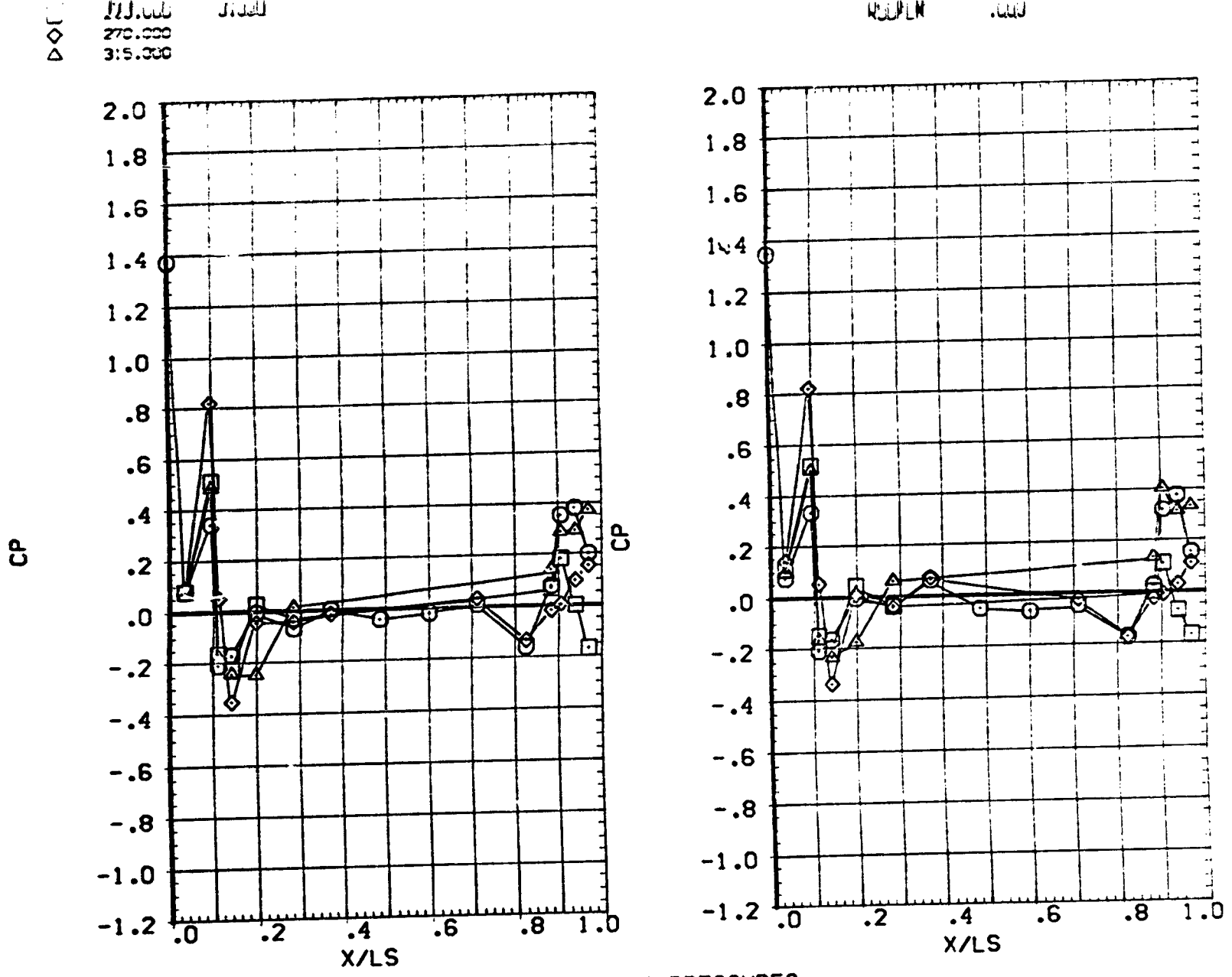
SYMBOL	PHI	BETAT	MACH
○	.000	7.060	1.555
□	45.000	9.090	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



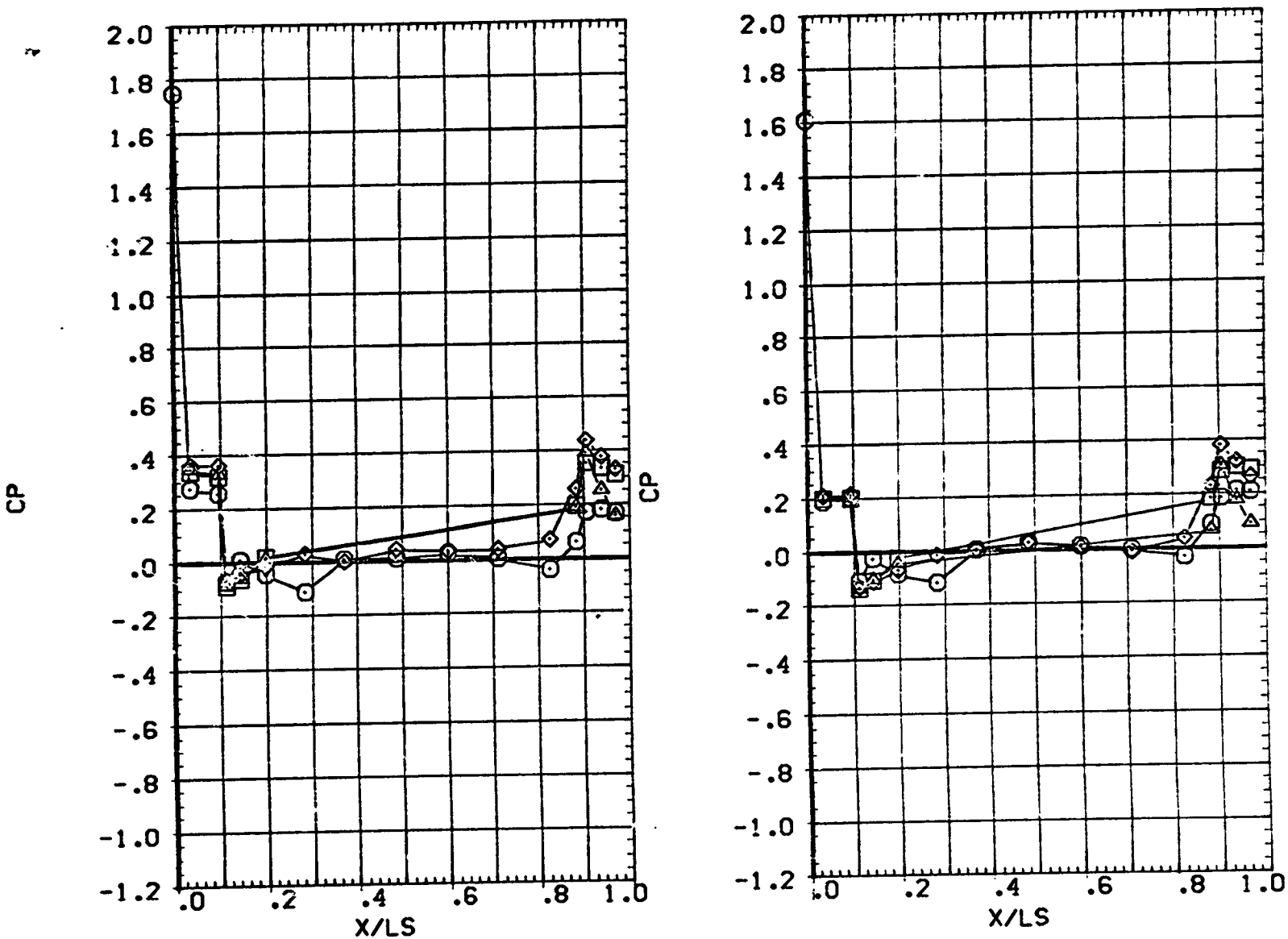
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RBOS06)

SYMBOL	PHI	BETAT	MACH
○	.000	-6.250	2.000
□	45.000	-.130	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

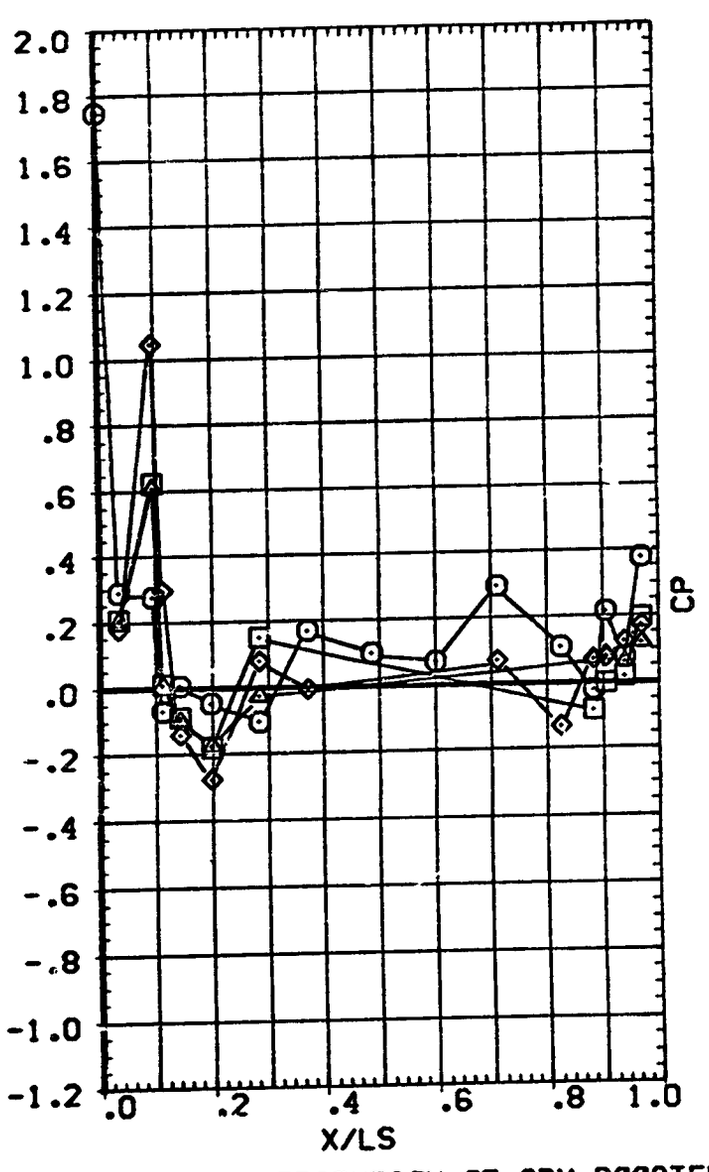


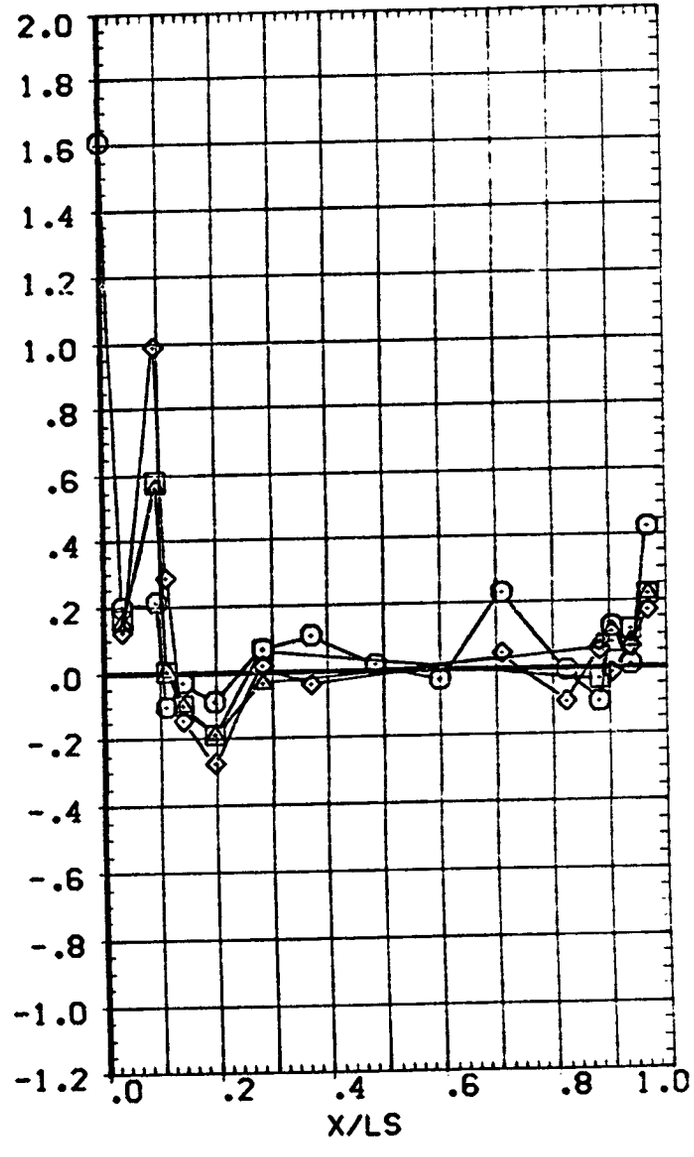
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

SYMBOL	PHI	BETAT	MACH
○	180.000	-6.250	2.000
□	225.000	-.130	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHAT	.000	SRBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



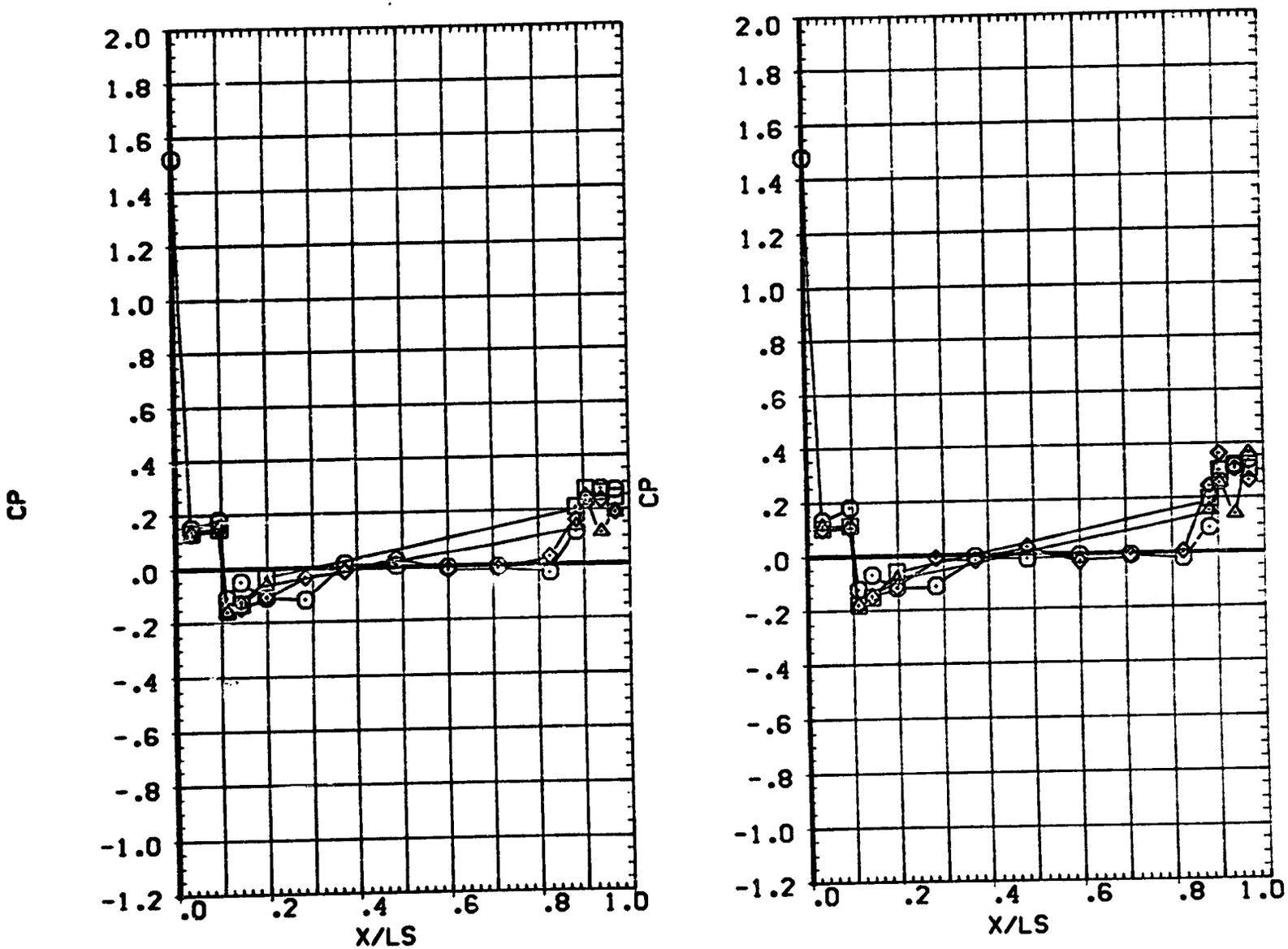


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

SYMBOL	PHI	BETAT	MACH
○	.000	3.950	2.000
□	45.000	5.980	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



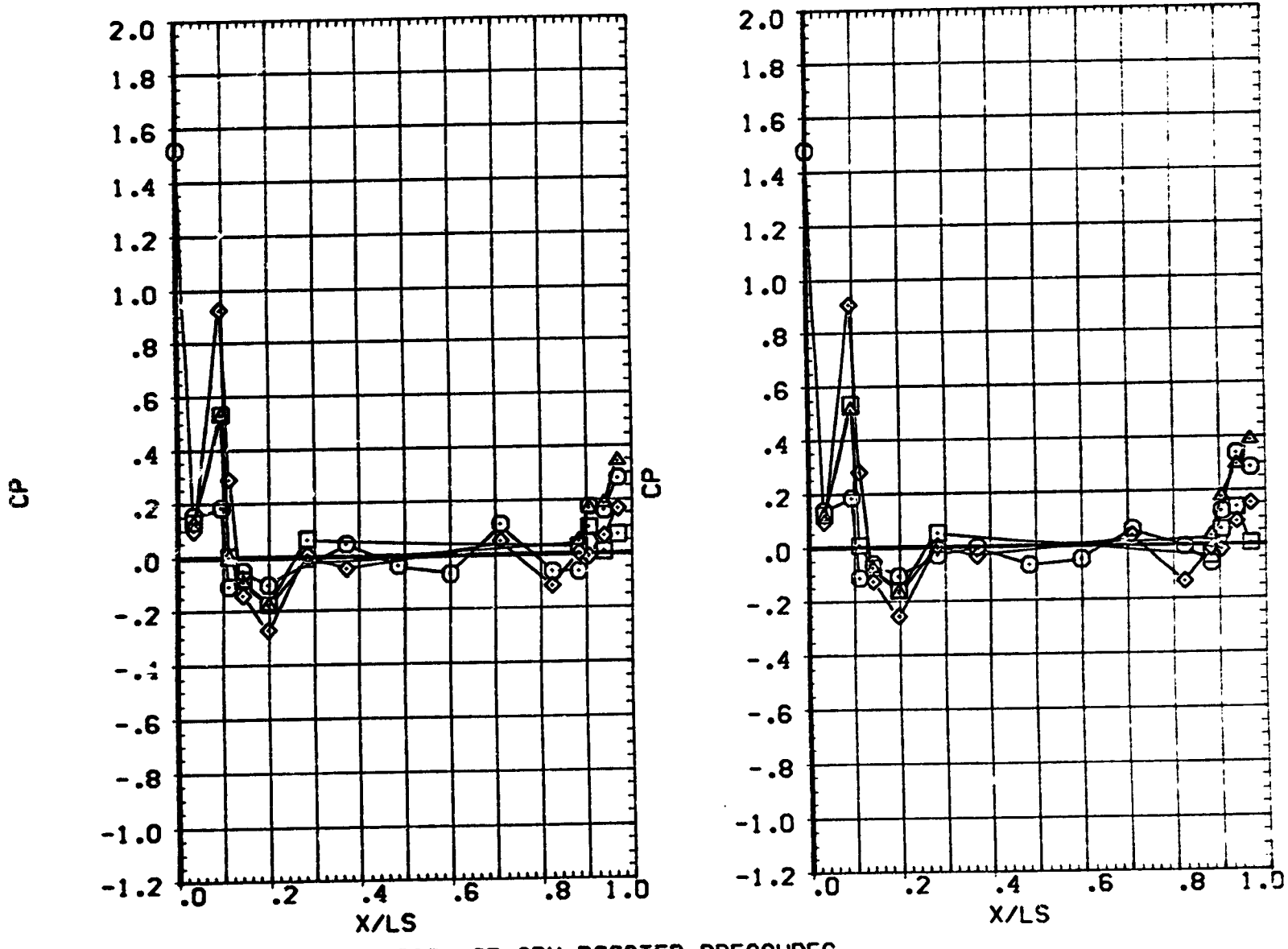
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RB0S06)

SYMBOL	PHI	BETAT	MACH
○	180.000	3.950	2.000
□	225.000	5.990	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



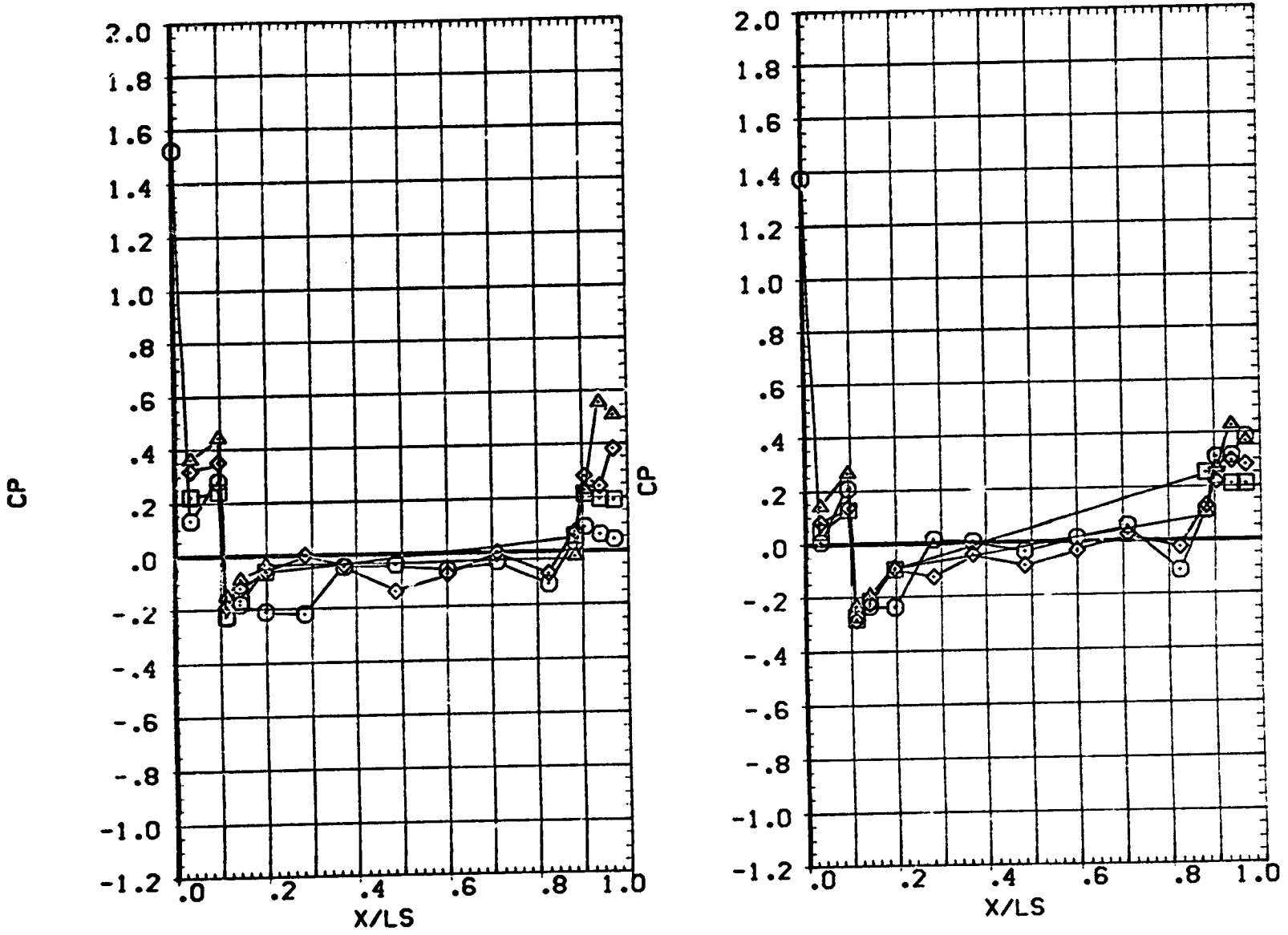
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RB0S08)

SYMBOL	PHI	BETAT	MACH
○	.000	-6.150	1.555
□	45.000	5.030	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



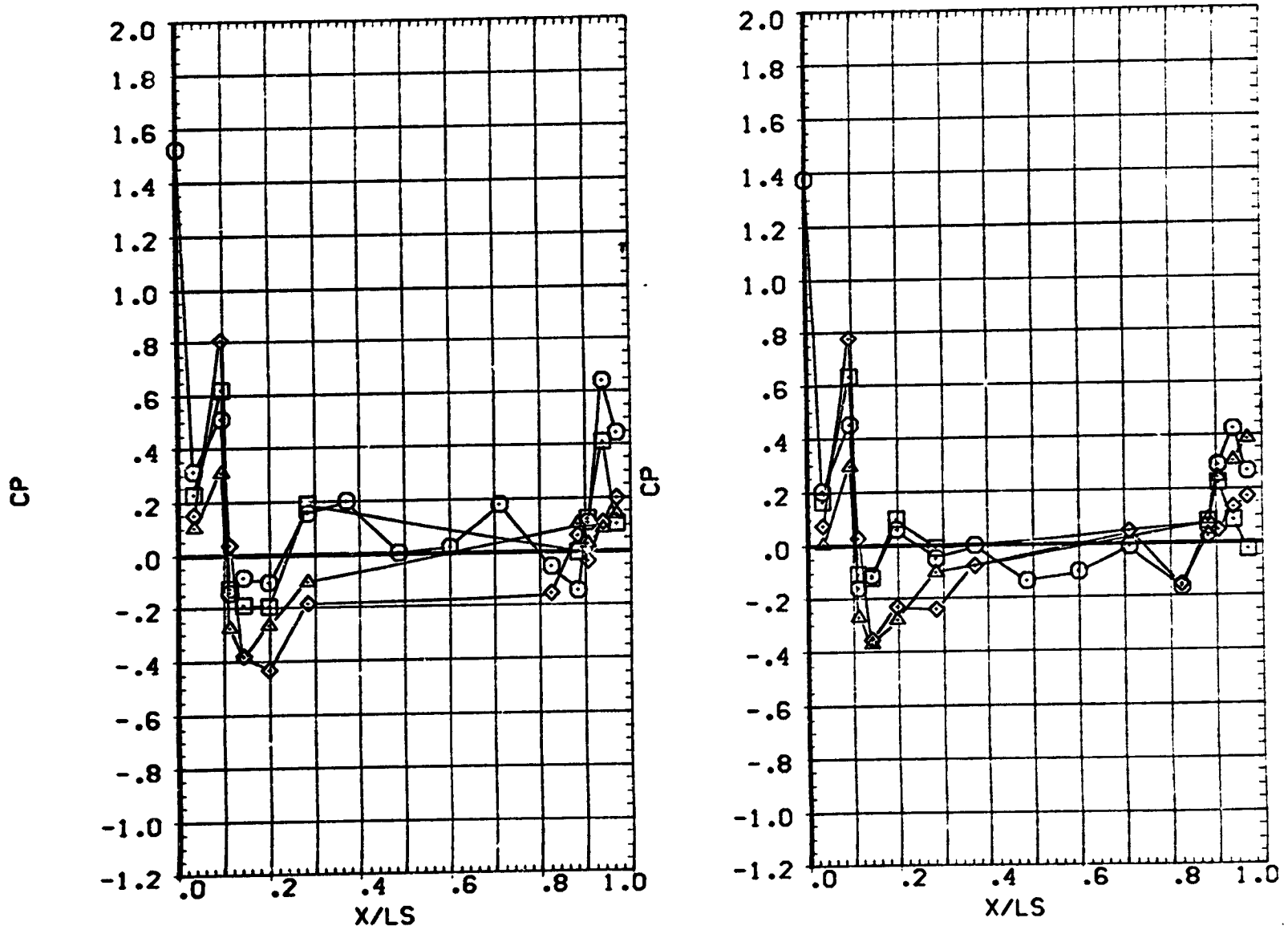
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RBOS08)

SYMBOL	PHI	BETAT	MACH
○	180.000	-6.150	1.555
□	225.000	5.030	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



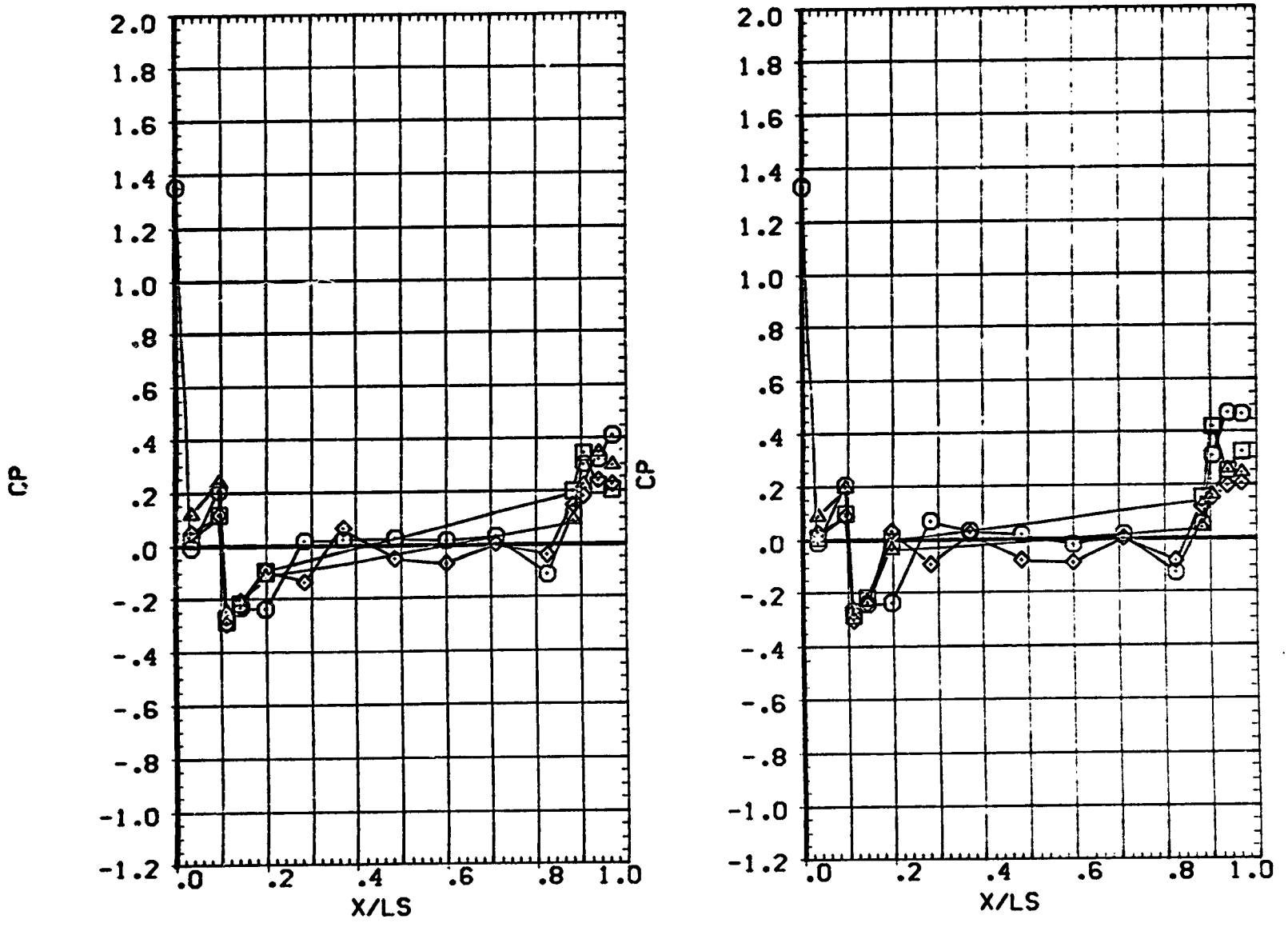
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RBOS08)

SYMBOL	PHI	BETAT	MACH
○□	.000	7.050	1.555
	45.000	9.070	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



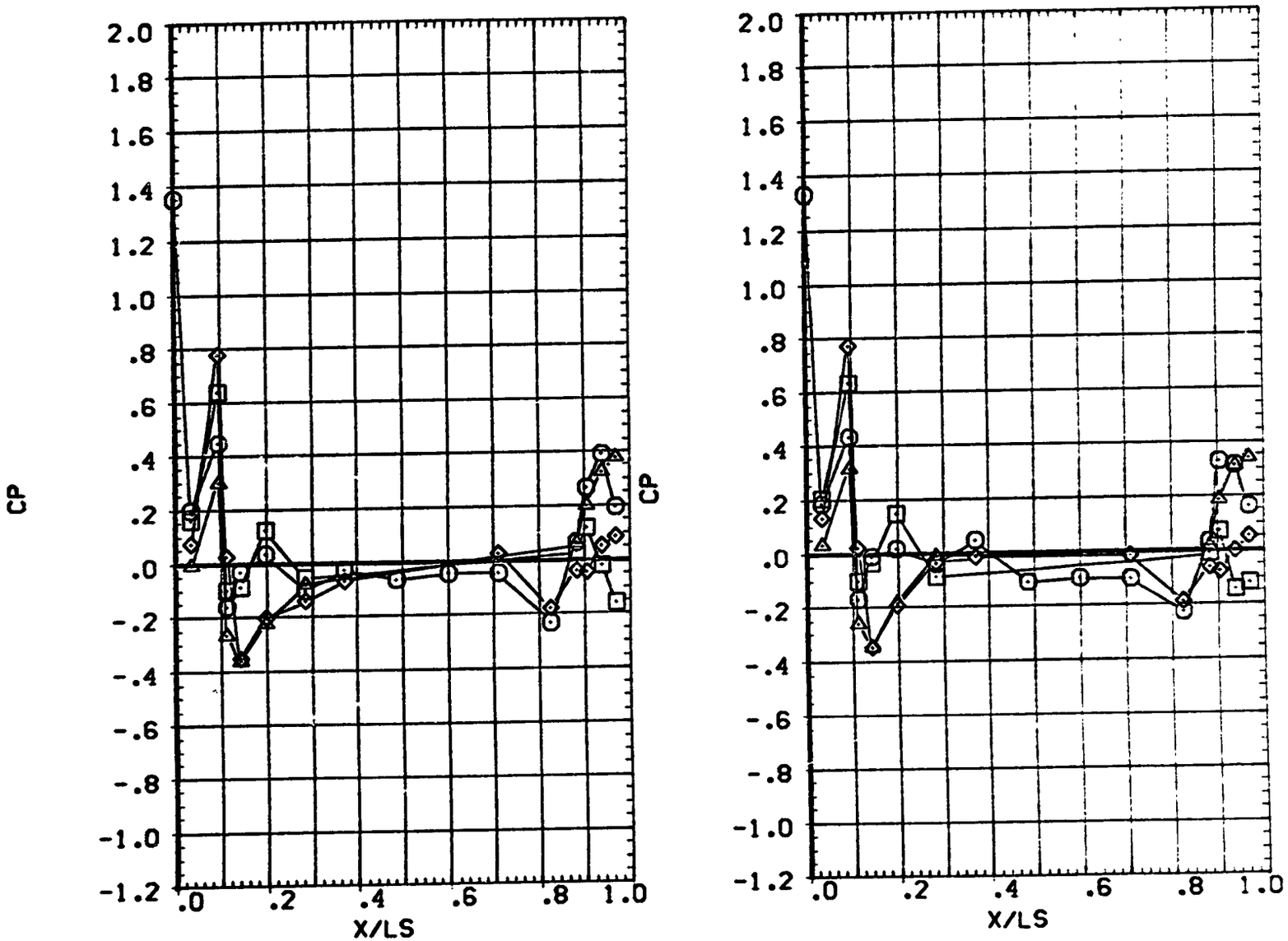
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RBOS08)

SYMBOL	PHI	BETAT	MACH
○	180.000	7.050	1.555
□	225.000	9.070	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHAT	-4.000	SREINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



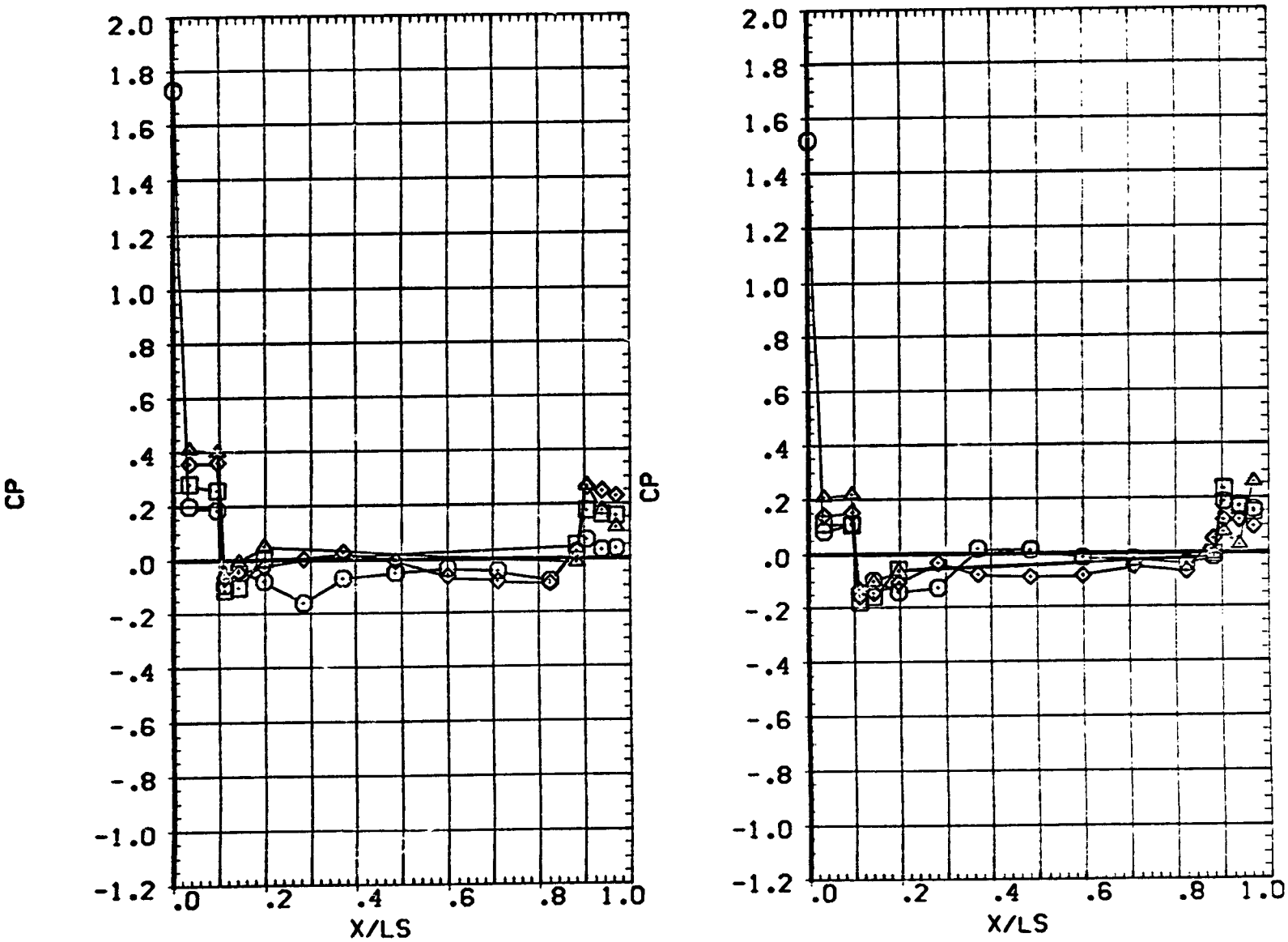
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RBCS08)

SYMBOL	PHI	BETAT	MACH
○	.000	-6.270	2.000
□	45.000	3.920	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



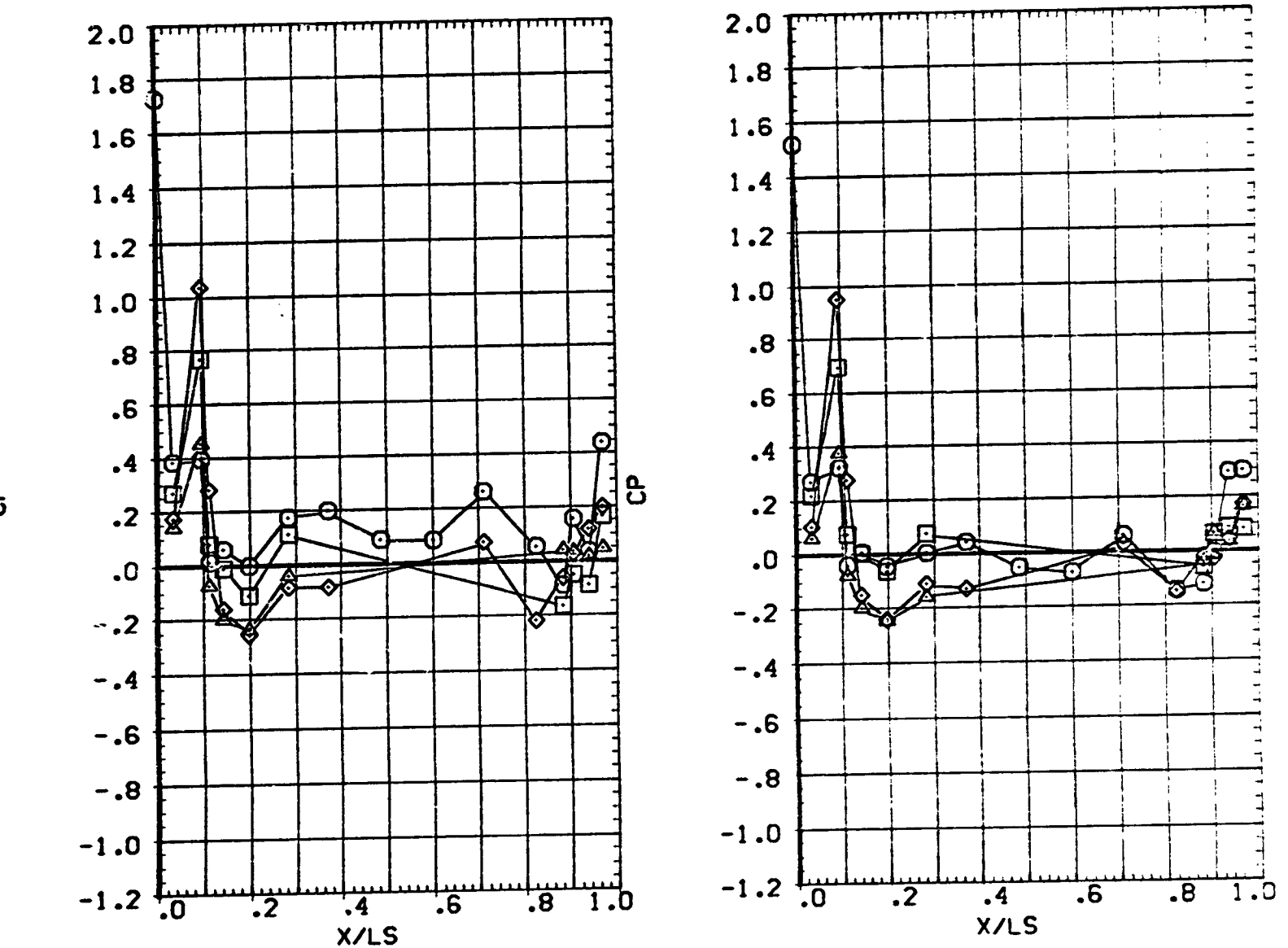
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IAS 02A + S3 + T9 SRM BOOSTER (RB0S08)

SYMBOL	PHI	BETAT	MACH
○	180.000	-6.270	2.000
□	225.000	3.920	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBITAL	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



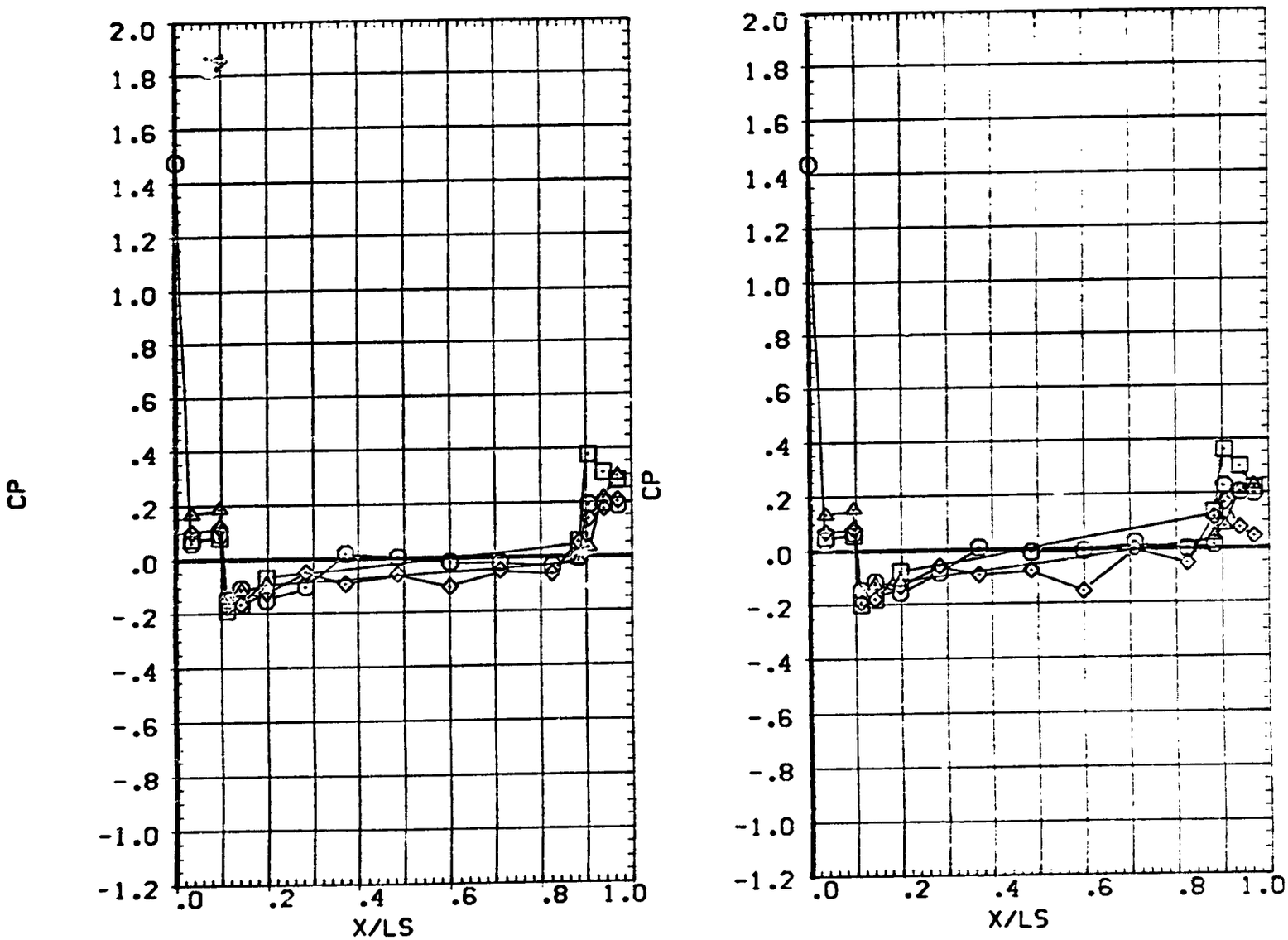
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RBCS08)

SYMBOL	PHI	BETAT	MACH
○	.000	5.960	2.000
□	45.000	BODY	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROLLR	.000		



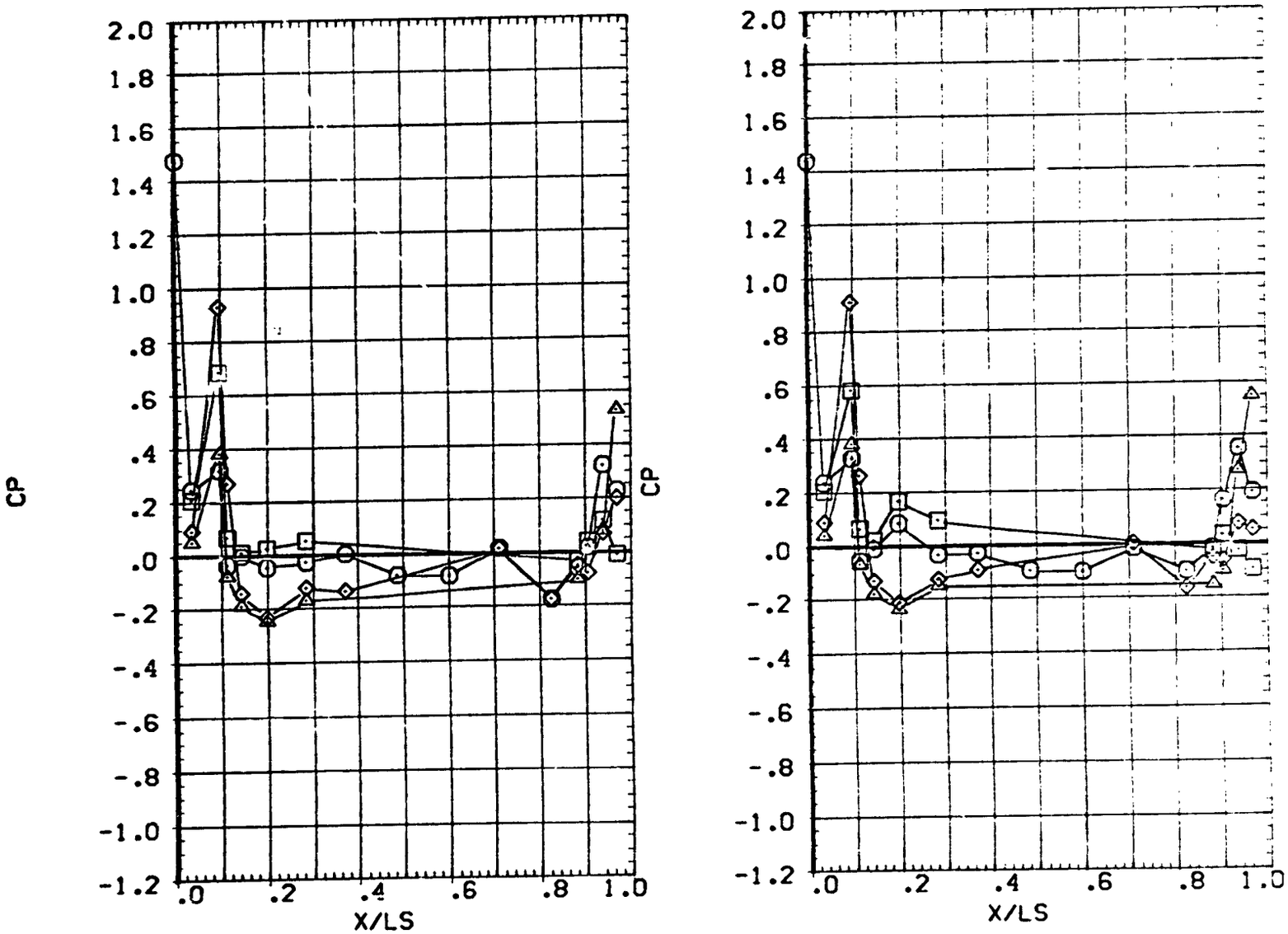
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RBOS08)

SYMBOL	PHI	BETAT	MACH
○	180.000	-5.910	2.000
□	225.000	8.010	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ERBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



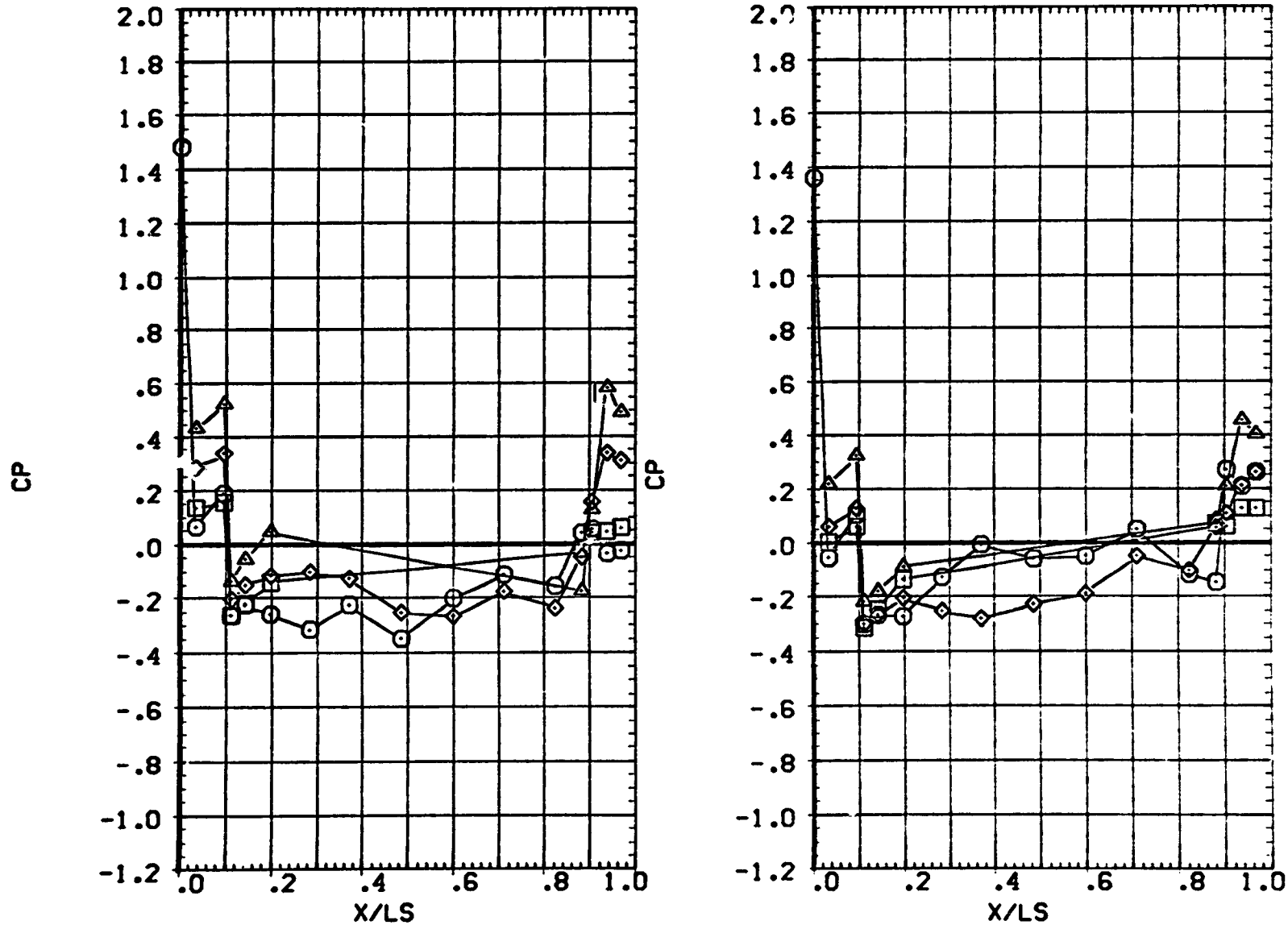
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RBOS10)

SYMBOL	PHI	BETAT	MACH
○	.000	-6.210	1.555
□	45.000	3.650	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



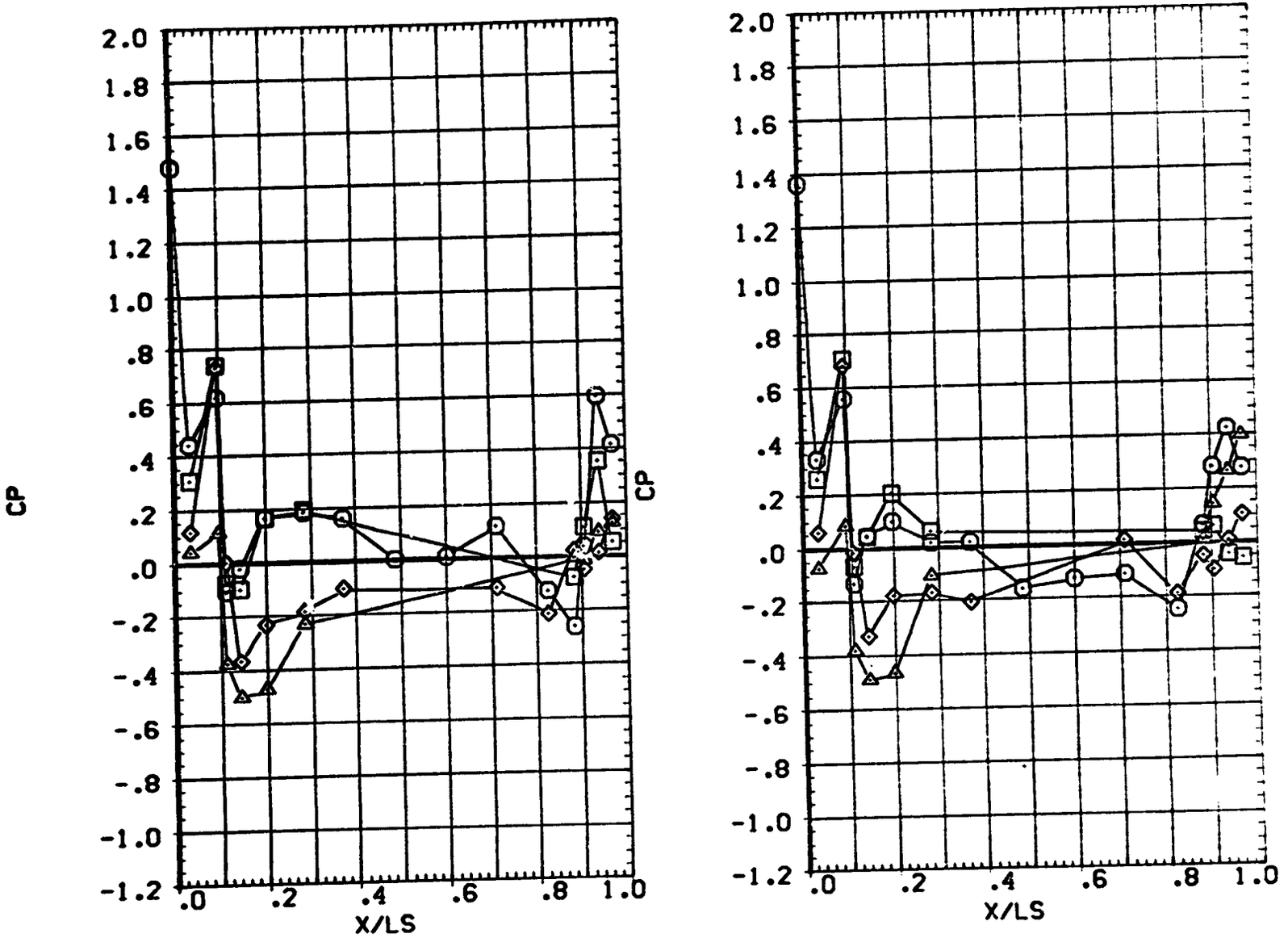
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RBOS10)

SYMBOL	PHI	BETAT	MACH
○	180.000	-6.210	1.555
□	225.000	3.650	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



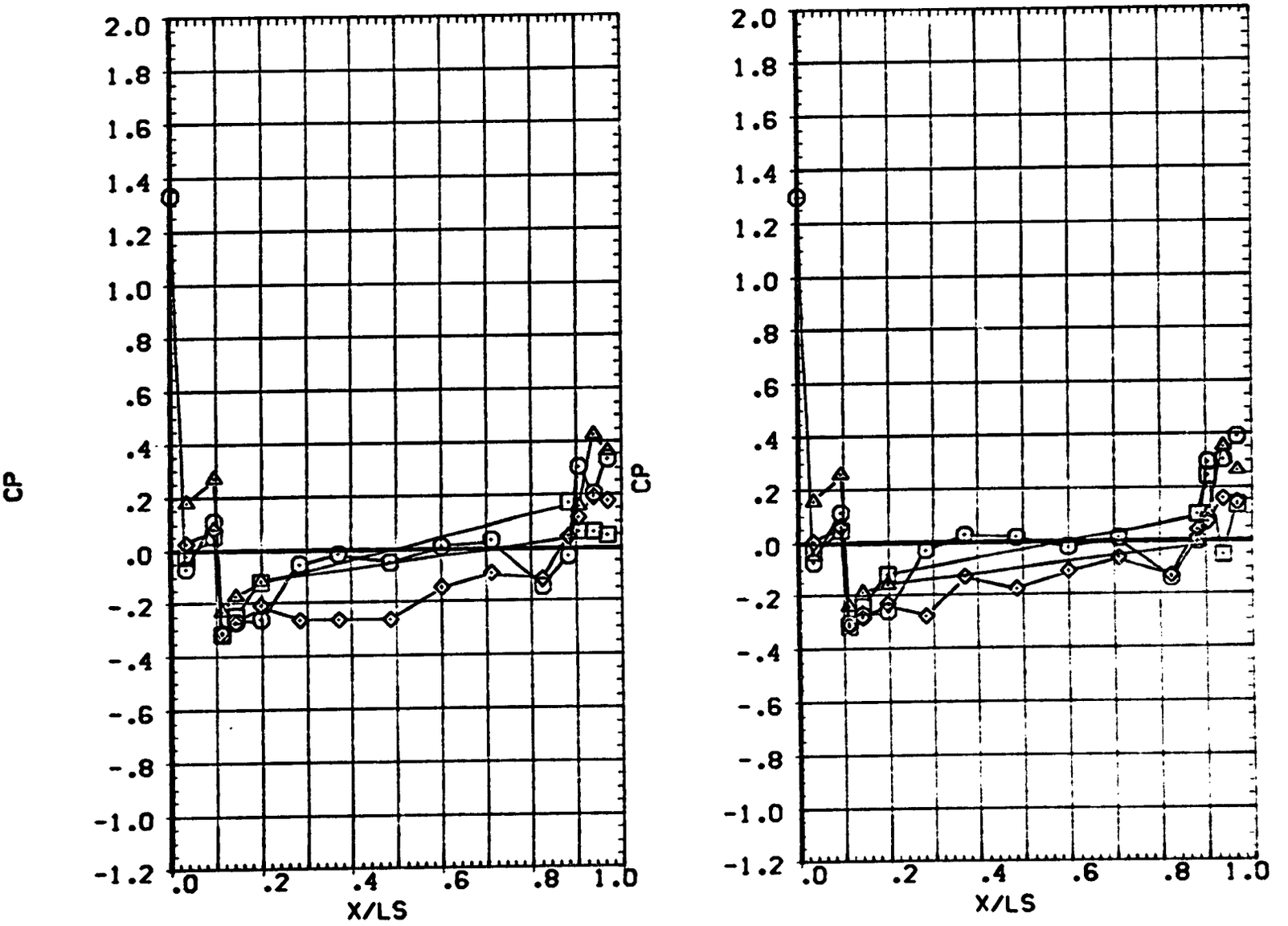
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RBOS10)

SYMBOL	PHI	BETAT	MACH
○	.000	5.710	1.555
□	45.000	7.770	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



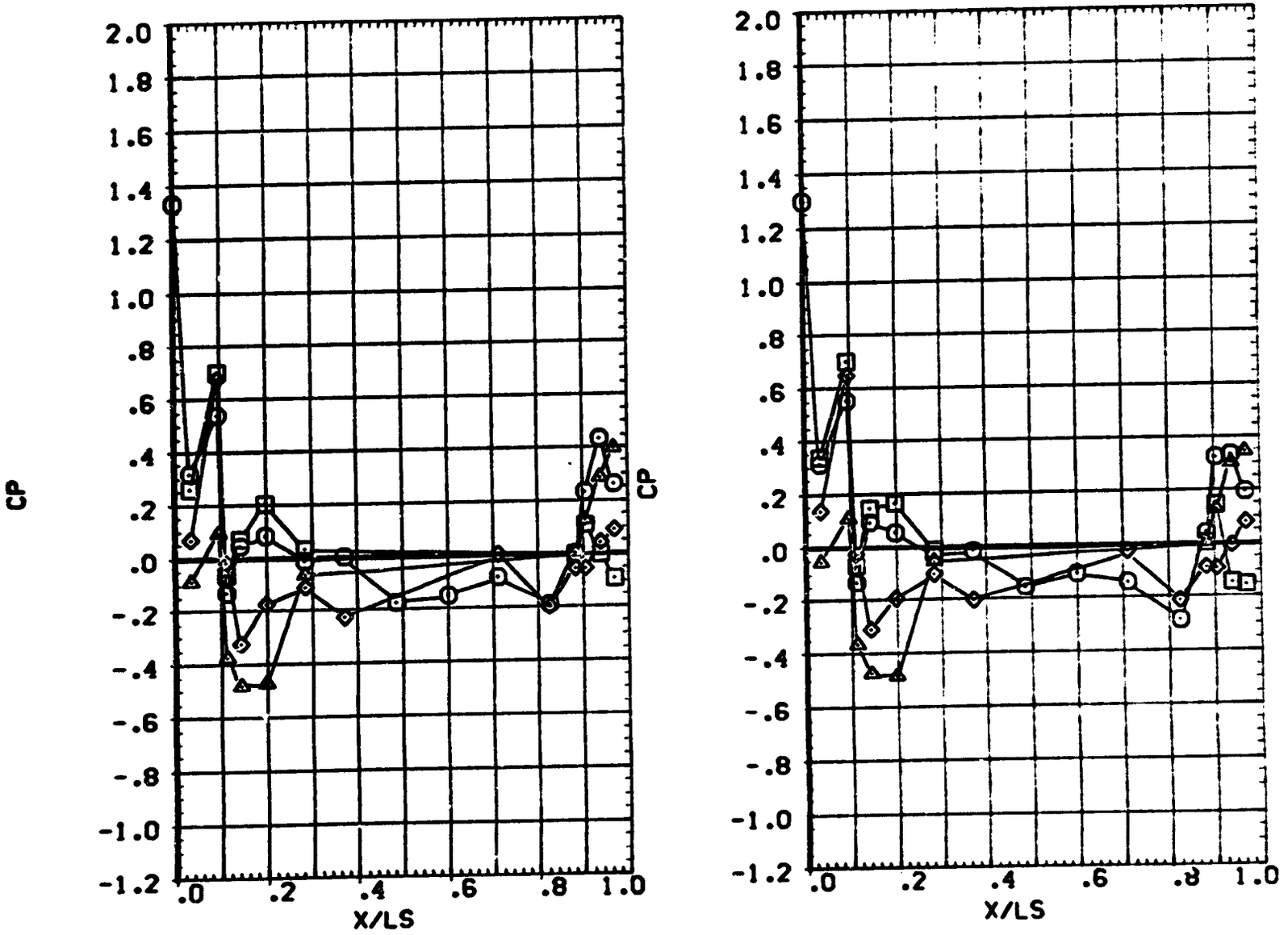
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RBCS10)

SYMBOL	PHI	BETAT	MACH
○	180.000	5.710	1.555
□	225.000	7.770	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDF_R	.000		



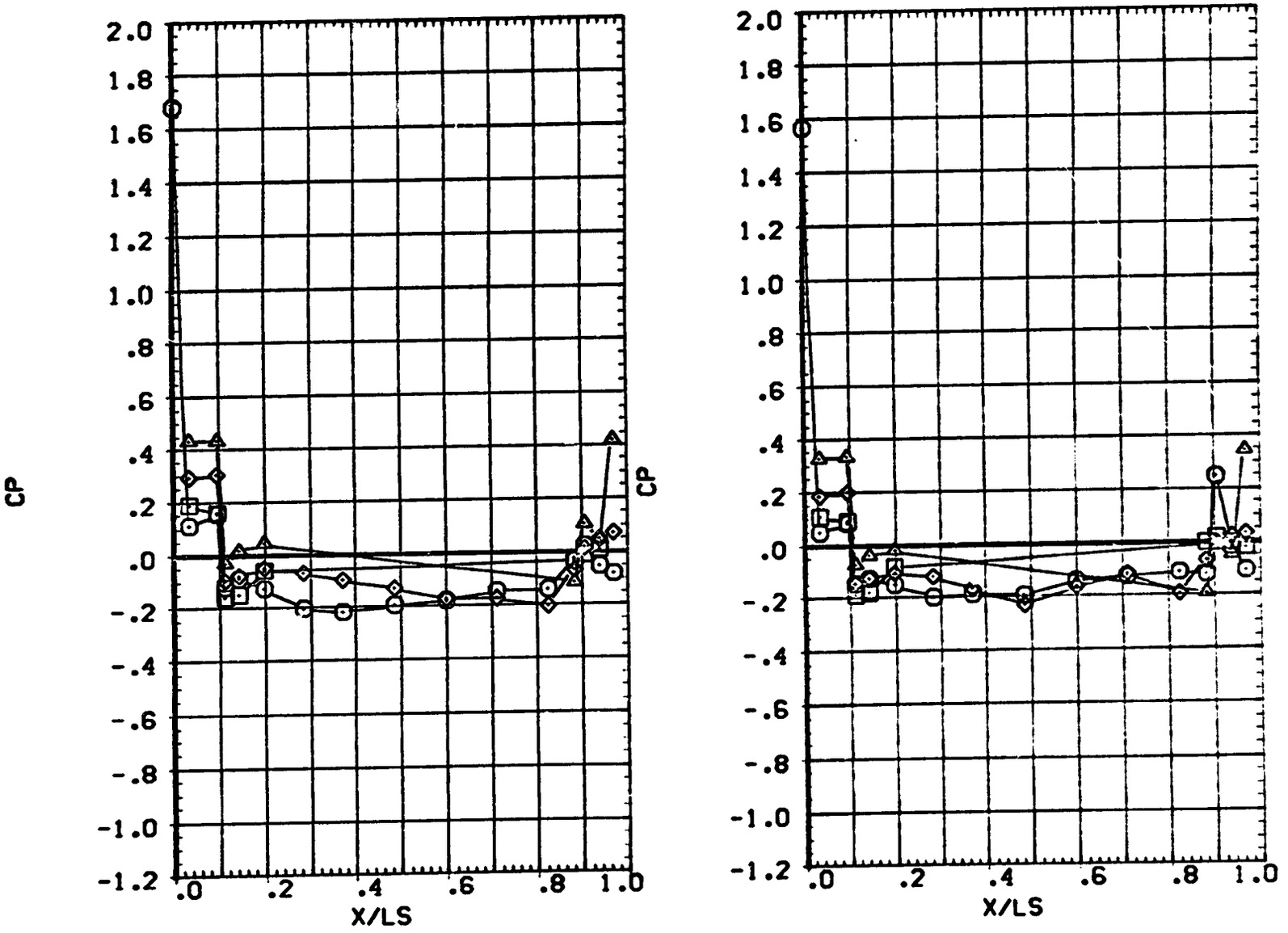
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 :A9 02A + S3 + T9 SRM BOOSTER (RBOS10)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.280	2.000
□	45.000	-.170	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



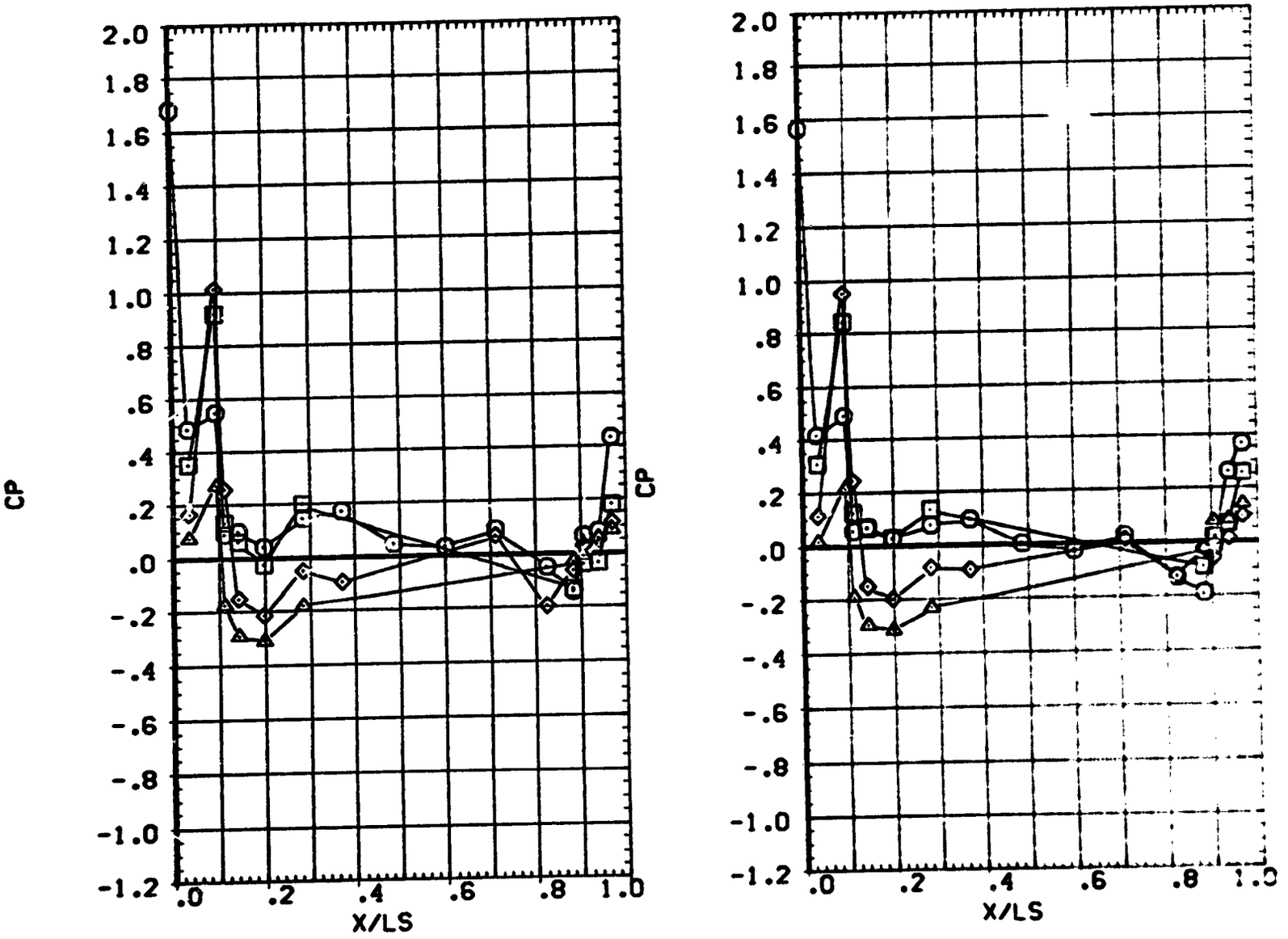
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RBOS10)

SYMBOL	PHI	BETAT	MACH
○	180.000	-4.280	2.000
□	225.000	-.170	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



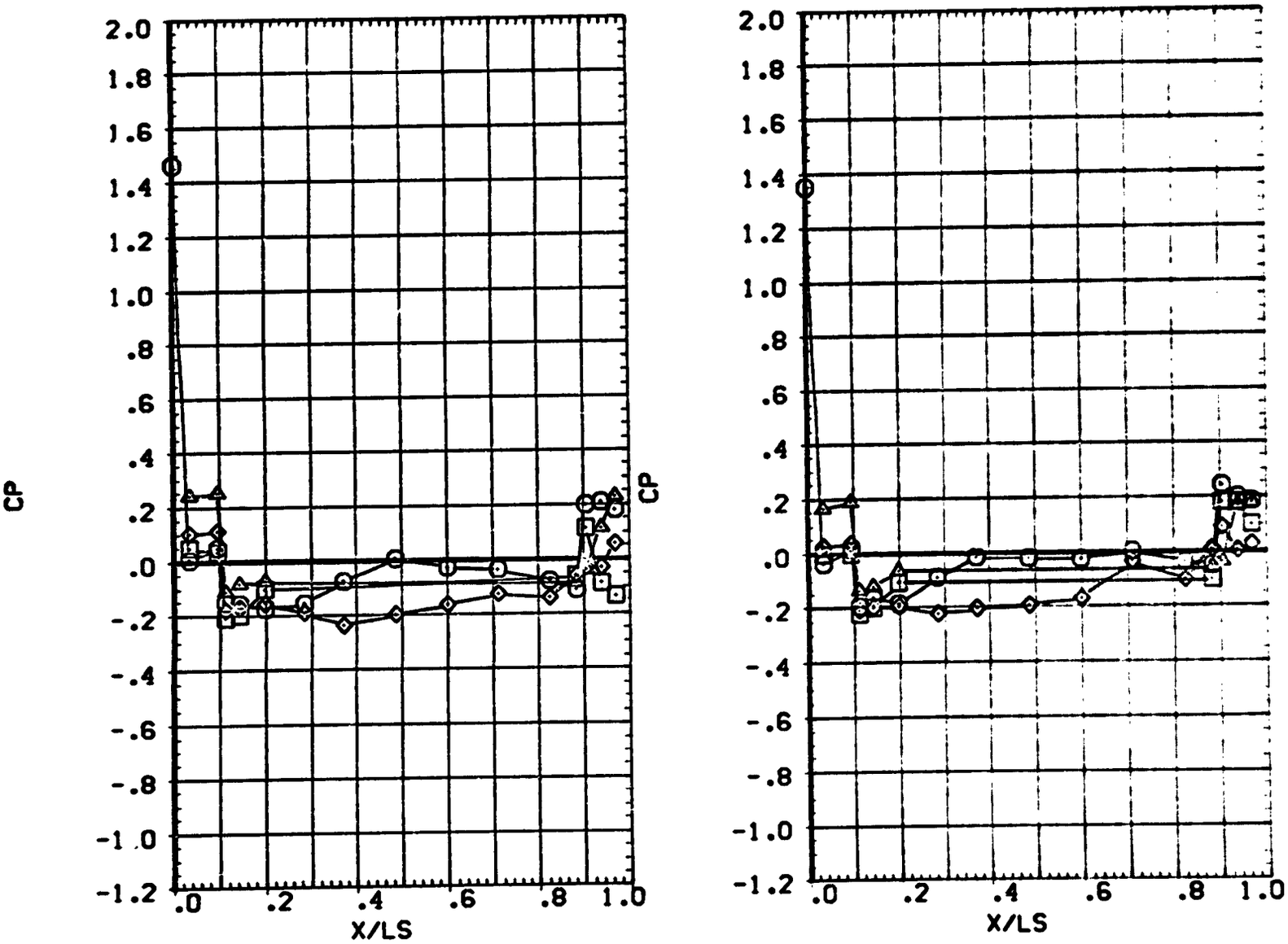
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 !A9 02A + S3 + T9 SRM BOOSTER (RBOS10)

SYMBOL	PHI	BETAT	MACH
○	.000	3.940	2.000
□	45.000	8.050	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



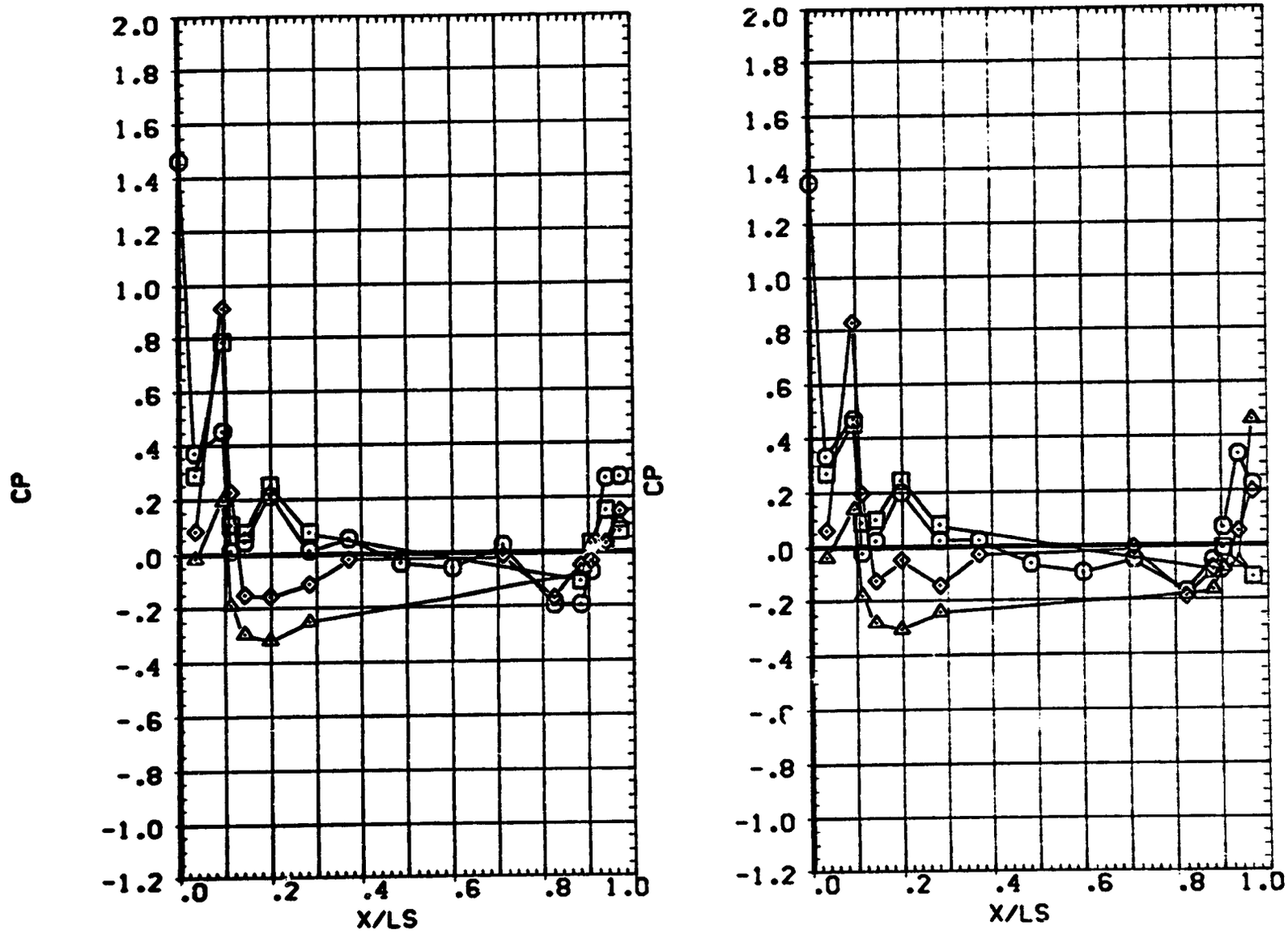
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER (RBOS10)

SYMBOL	PHI	BETAT	MACH
○	180.000	3.940	2.000
□	225.000	8.050	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



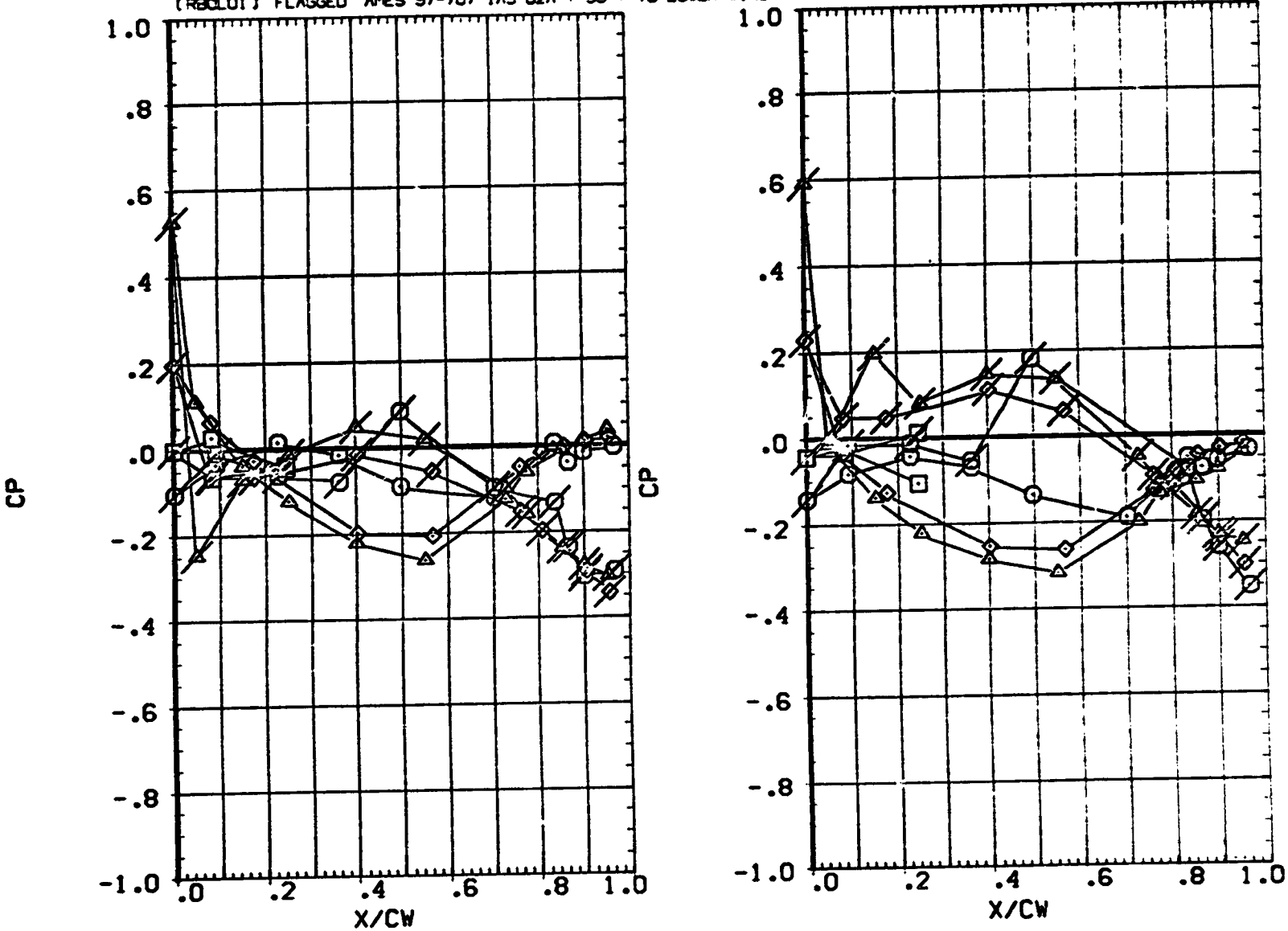
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

SYMBOL	Y/BW	ALPHAT	MACH
○	.299	-4.250	1.555
□	.364	-.120	
◇	.427		
△	.534		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCL01)	OPEN	AMES 97-707 IA9 02A + S3 + T9 UPPER WING
(RBCL01)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 LOWER WING



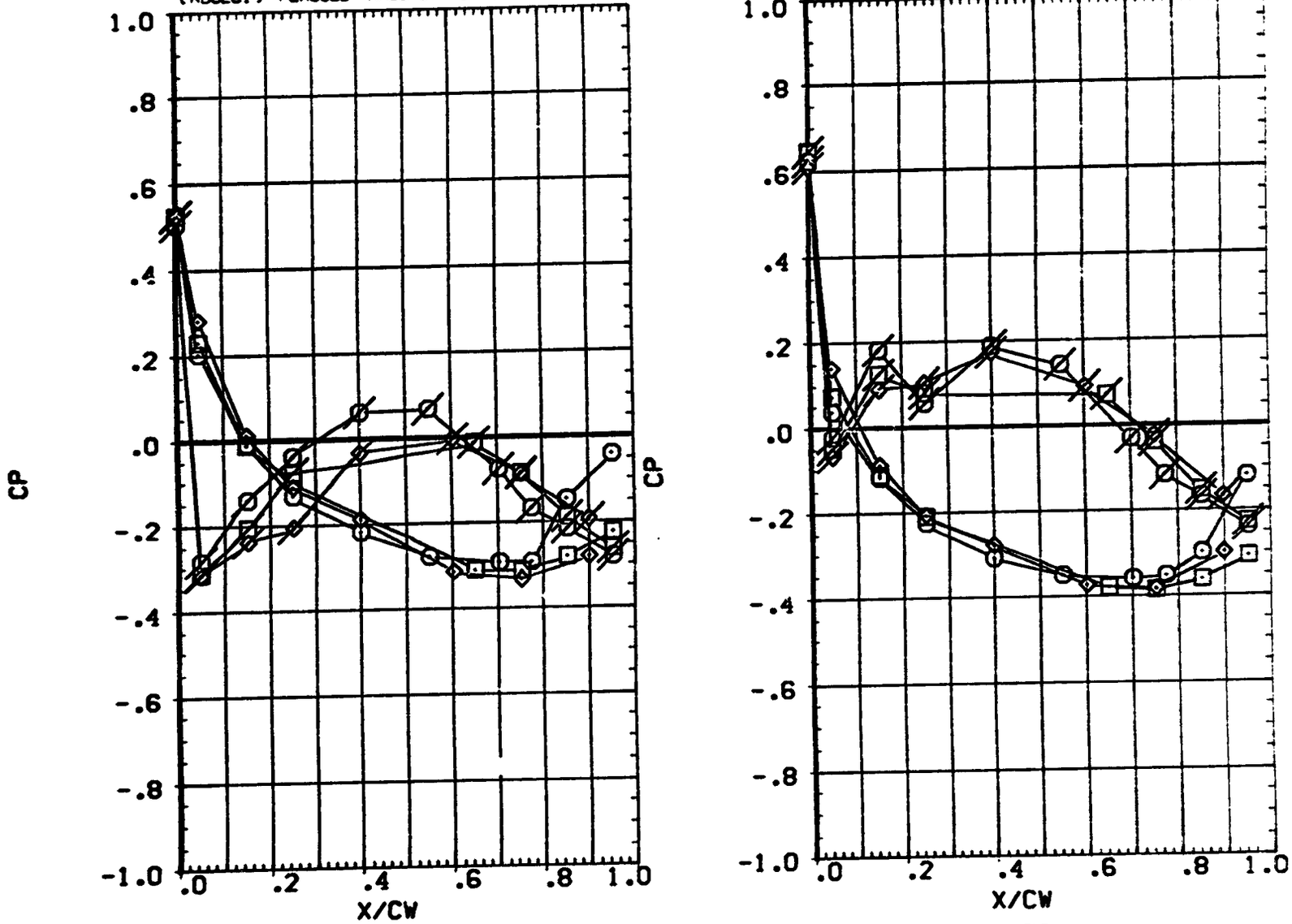
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	ALPHAT	MACH
○	.673	-4.250	1.555
□	.780	-.120	
◇	.887		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOU01)	OPEN	AMES 97-707 IA9 02A + S3 + T9 UPPER WING
(RBOL01)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 LOWER WING



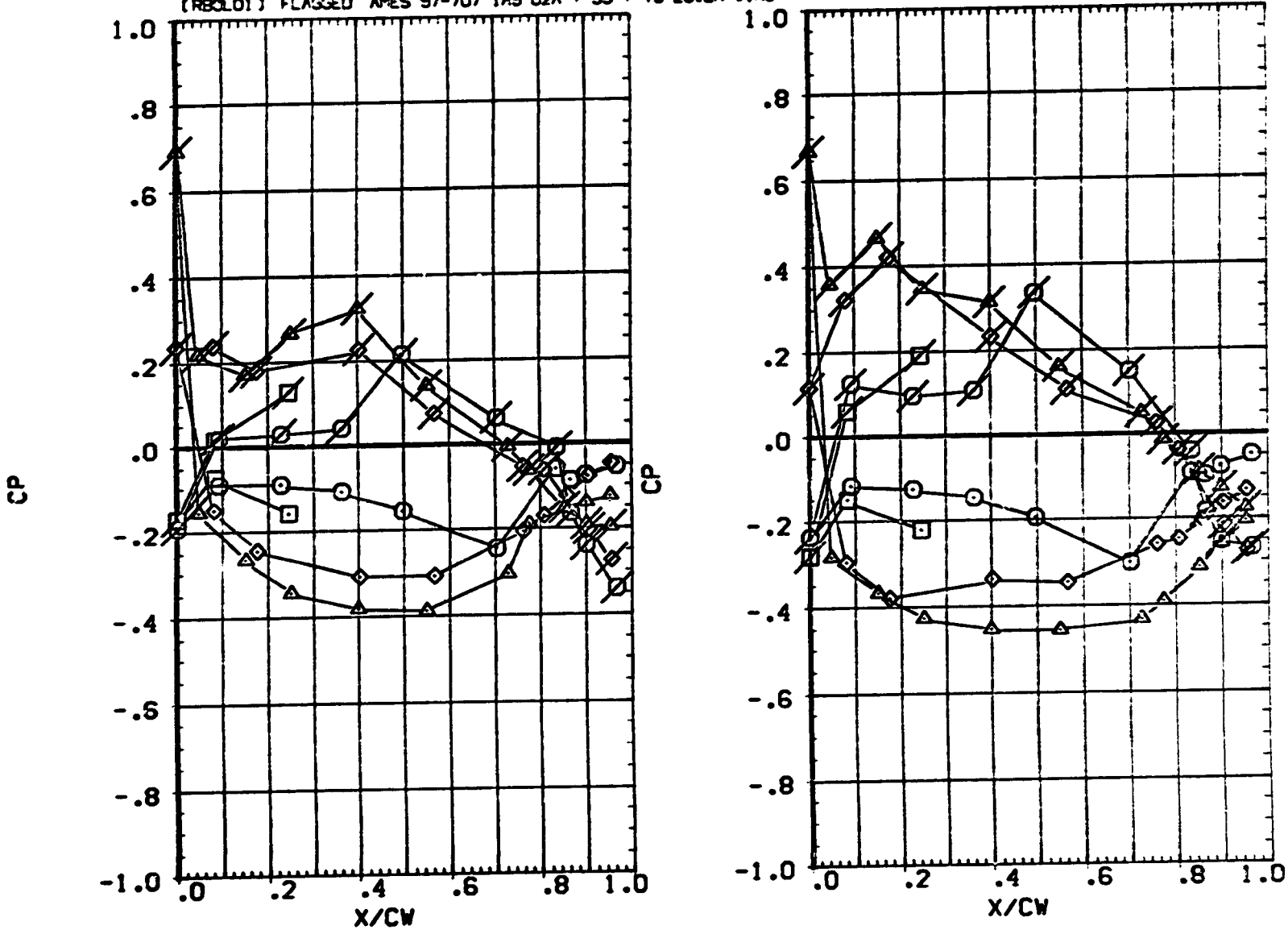
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	ALPHAT	MACH
○	.299	4.010	1.555
□	.364	8.130	
◇	.427		
△	.534		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOL01)	OPEN	AMES 97-707 1A9 02A + S3 + T9 UPPER WING
(RBOL01)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 LOWER WING



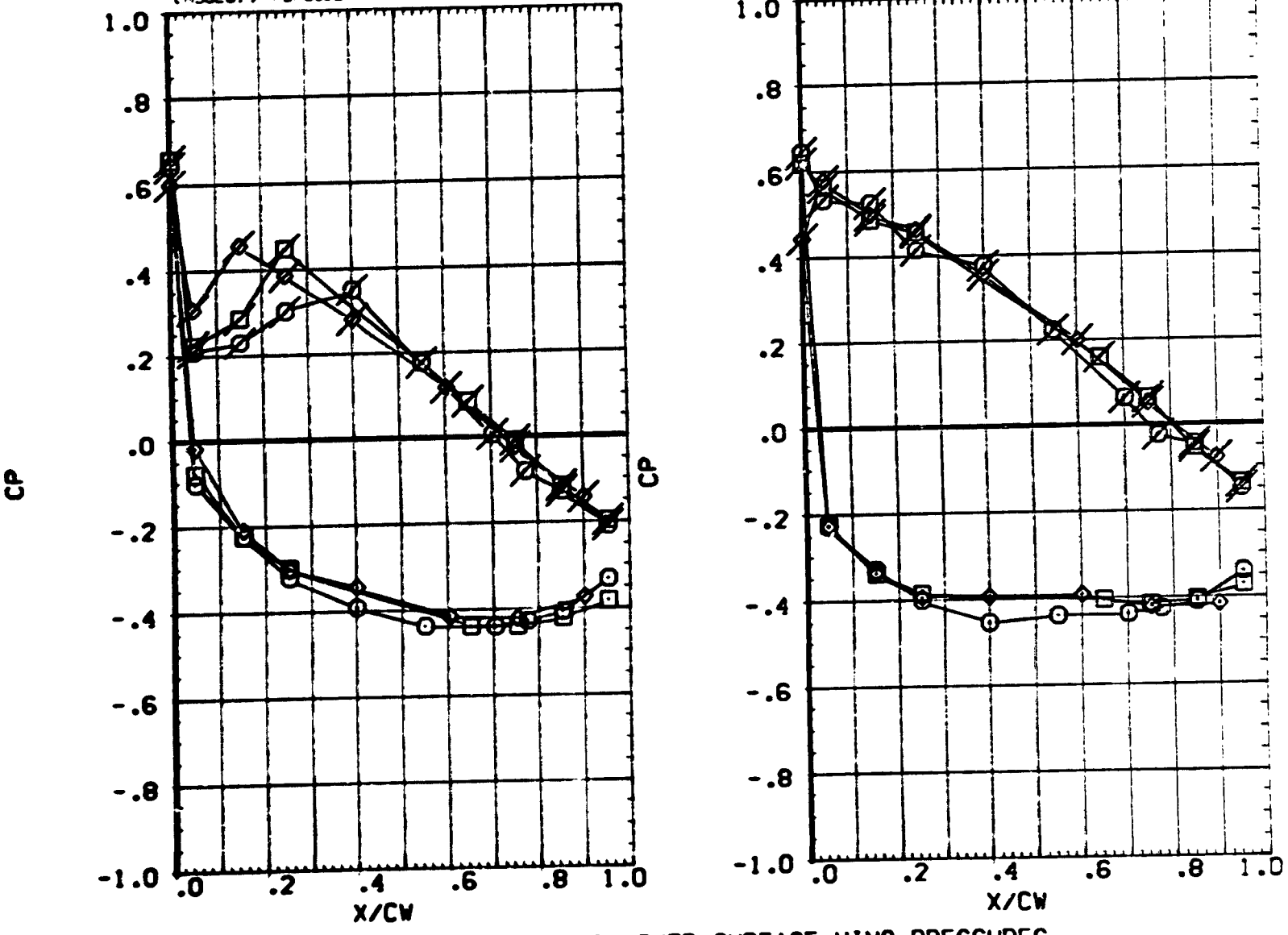
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	ALPHAT	MACH
○	.673	4.0:C	1.555
□	.780	8.:3C	
◇	.887		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CON 3	ION DESCRIPTION
(RBOL01)	OPEN	AMES 97-707	IA9 02A + S3 + T9 UPPER WING
(RBOL01)	FLAGGED	AMES 97-707	IA9 02A + S3 + T9 LOWER WING



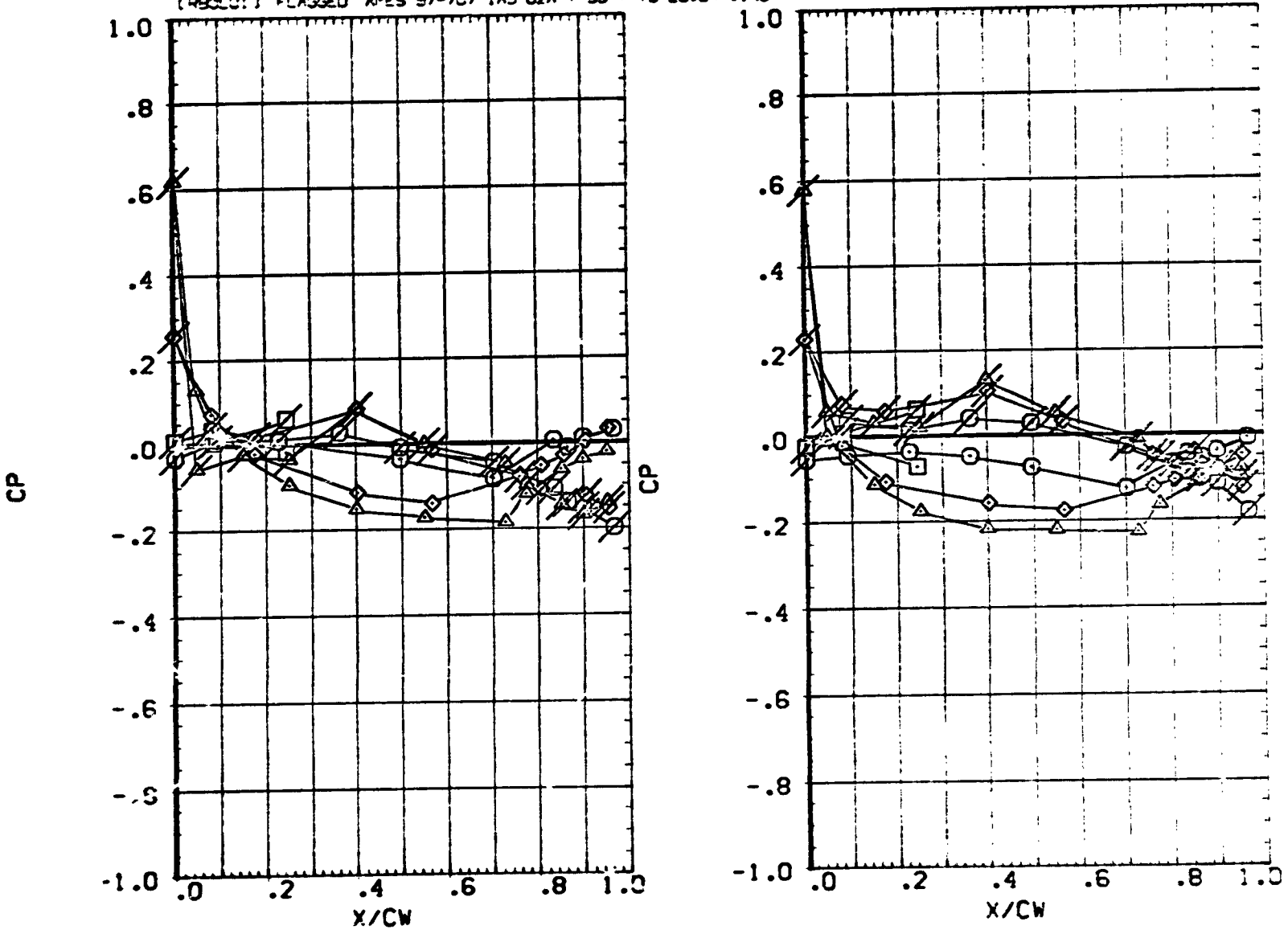
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BU	ALPHA*	MACH
○	.299	-4.250	2.000
□	.364	-.160	
◇	.427		
△	.534		

PARAMETRIC VALUES

BETAT	.000	SPRING	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RSCL01)	OPEN	AMES 97-707 IA9 02A + S3 + T9 UPPER WING
(RSCL01)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 LOWER WING



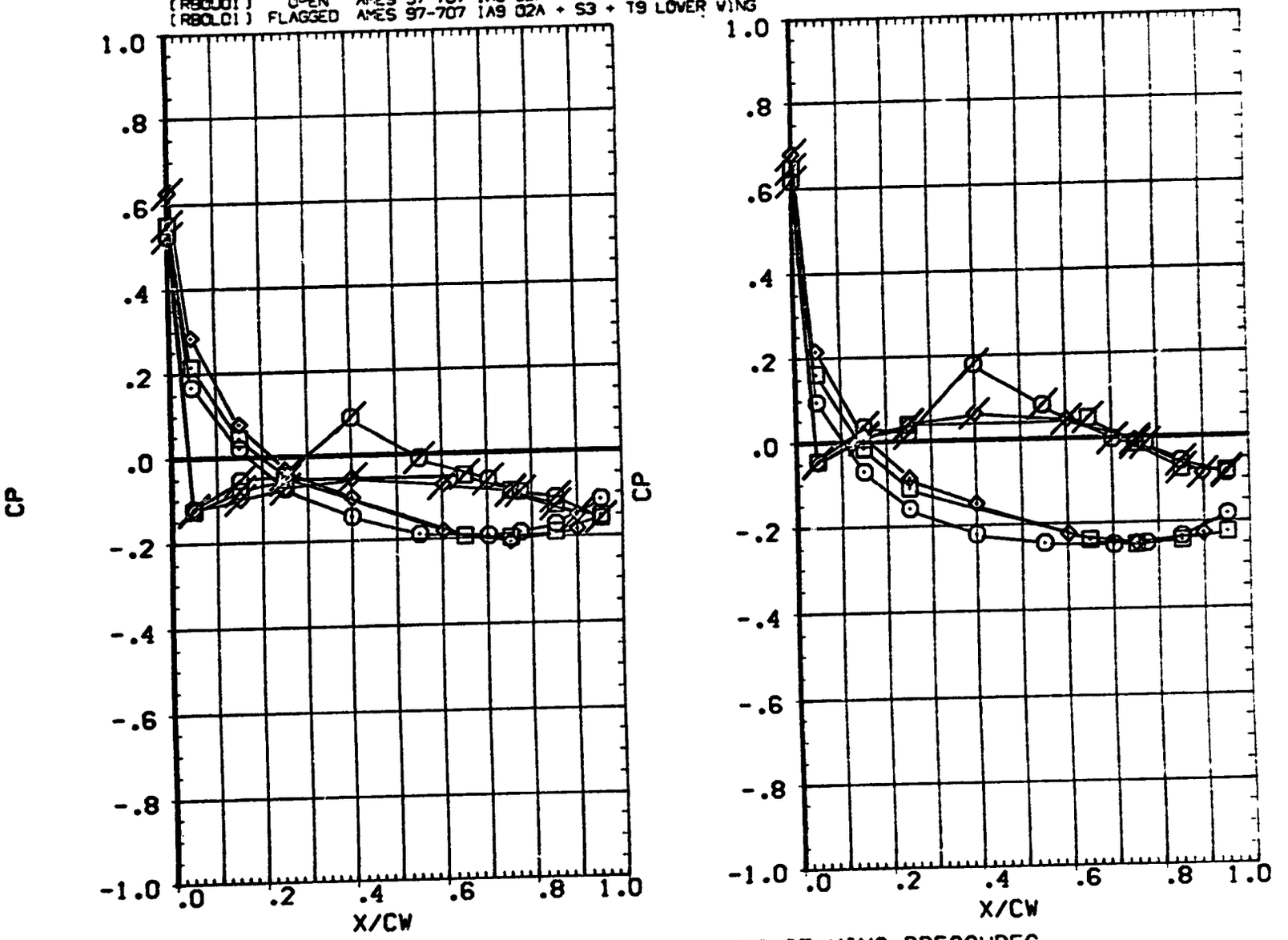
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	ALPHAT	MACH
○	.673	-4.250	2.000
□	.780	-.160	
◇	.887		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOUO1)	OPEN	AMES 97-707 IA9 02A + S3 + T9 UPPER WING
(RBOLO1)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 LOWER WING



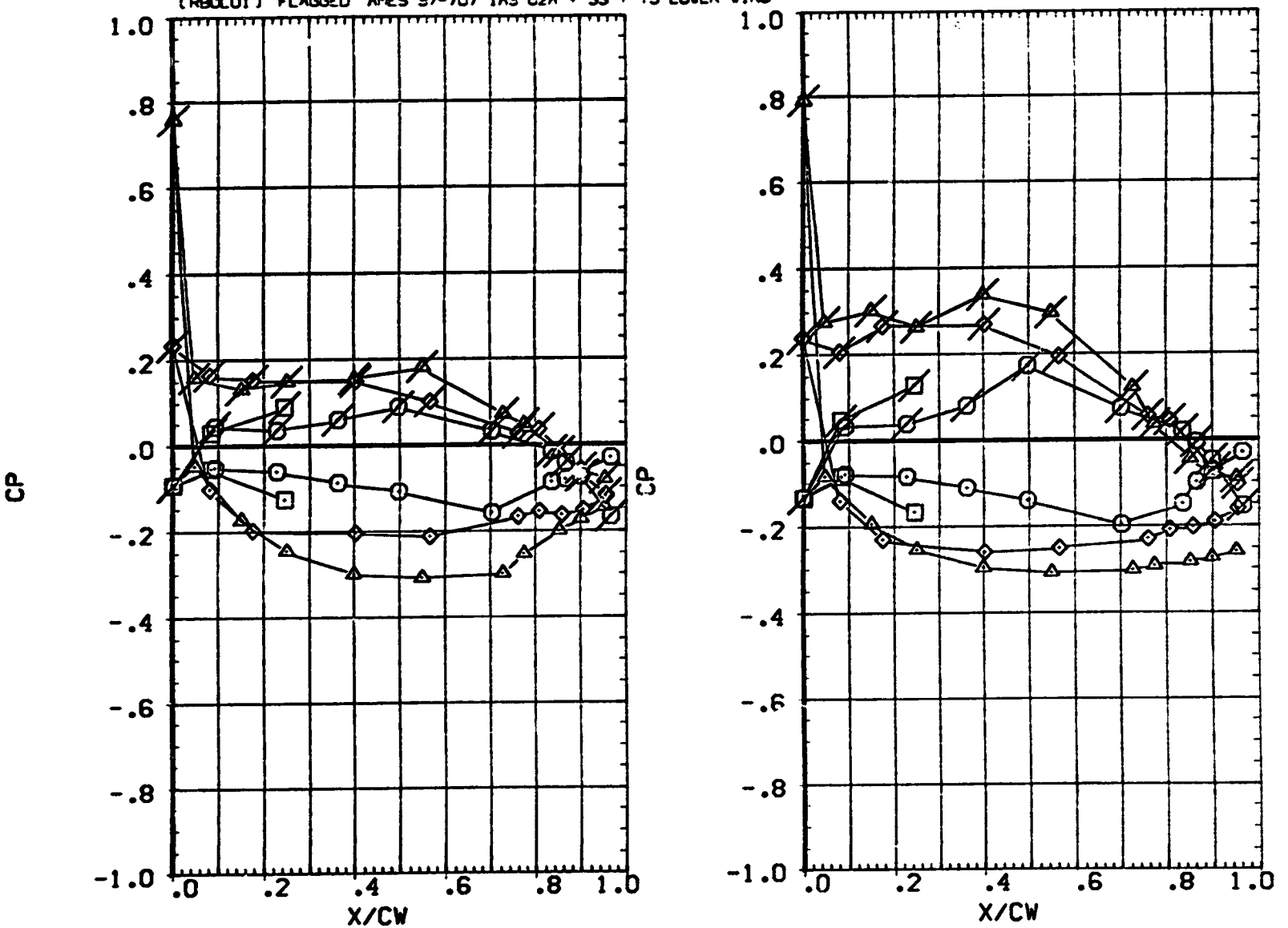
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	ALPHAT	MACH
○	.299	3.930	2.000
□	.364	8.020	
◇	.427		
△	.534		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOU01)	OPEN	AMES 97-707 IA9 C2A + S3 + T9 UPPER WING
(RBOL01)	FLAGGED	AMES 97-707 IA9 C2A + S3 + T9 LOWER WING

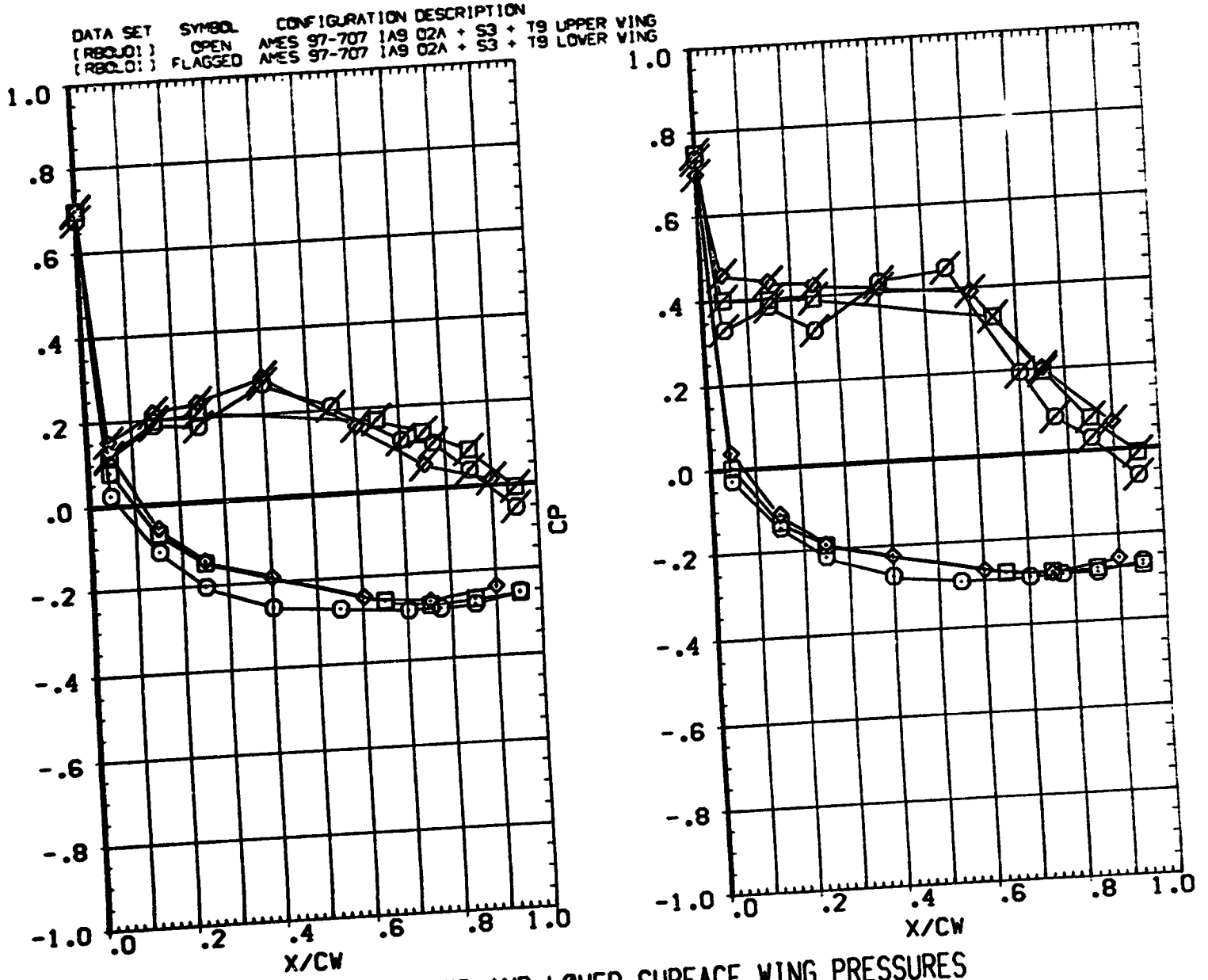


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	ALPHAT	MACH
○	.673	3.930	2.000
□	.780	8.020	
◇	.887		

BETAT	.000	[illegible]	[illegible]
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBCU01) OPEN AMES 97-707 1A9 02A + S3 + T9 UPPER WING
(RBCL01) FLAGGED AMES 97-707 1A9 02A + S3 + T9 LOWER WING



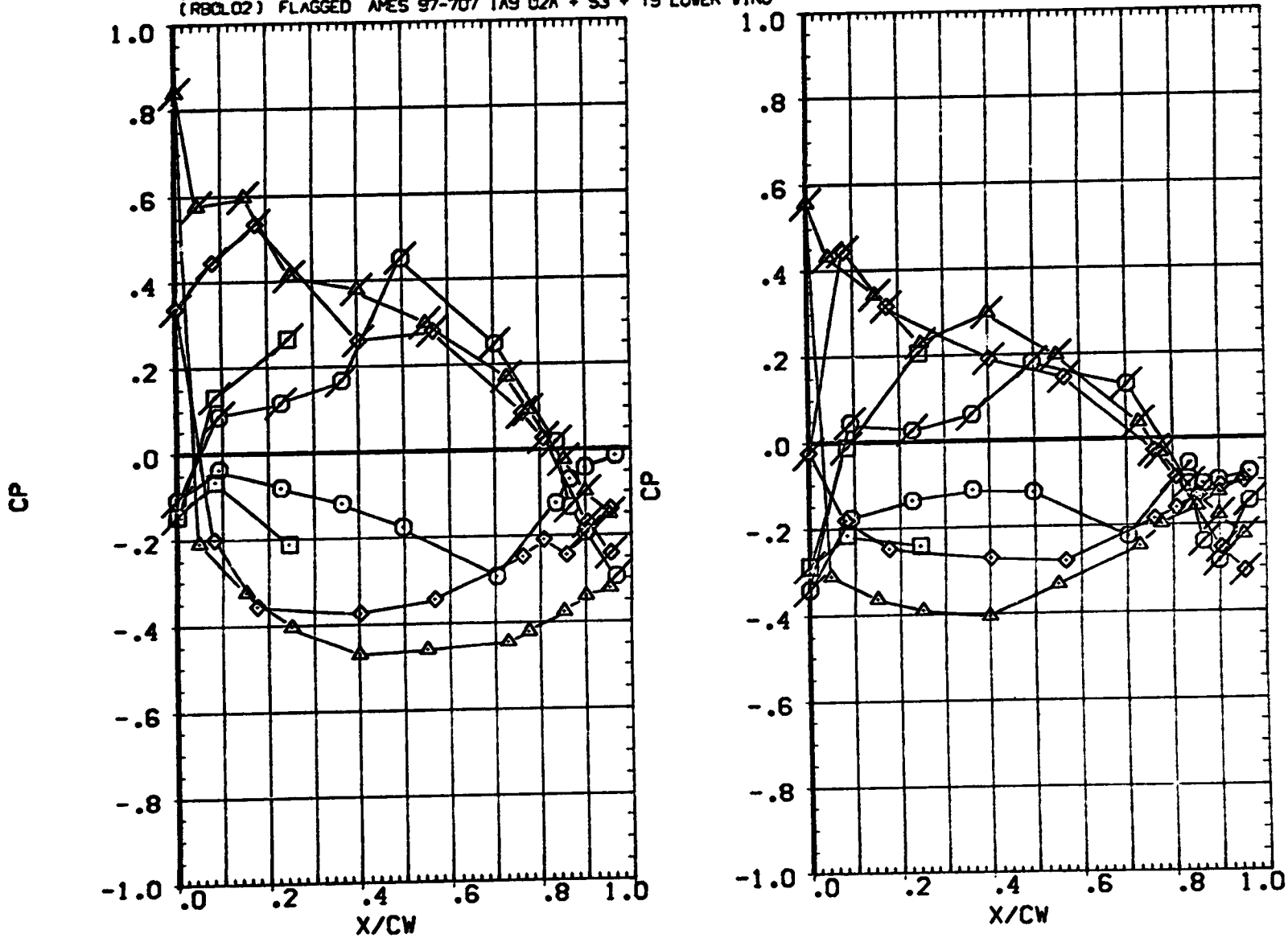
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.299	-5.100	1.555
□	.364	5.110	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOL02)	OPEN	AMES 97-707 IA9 02A + S3 + T9 UPPER WING
(RBOL02)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 LOWER WING



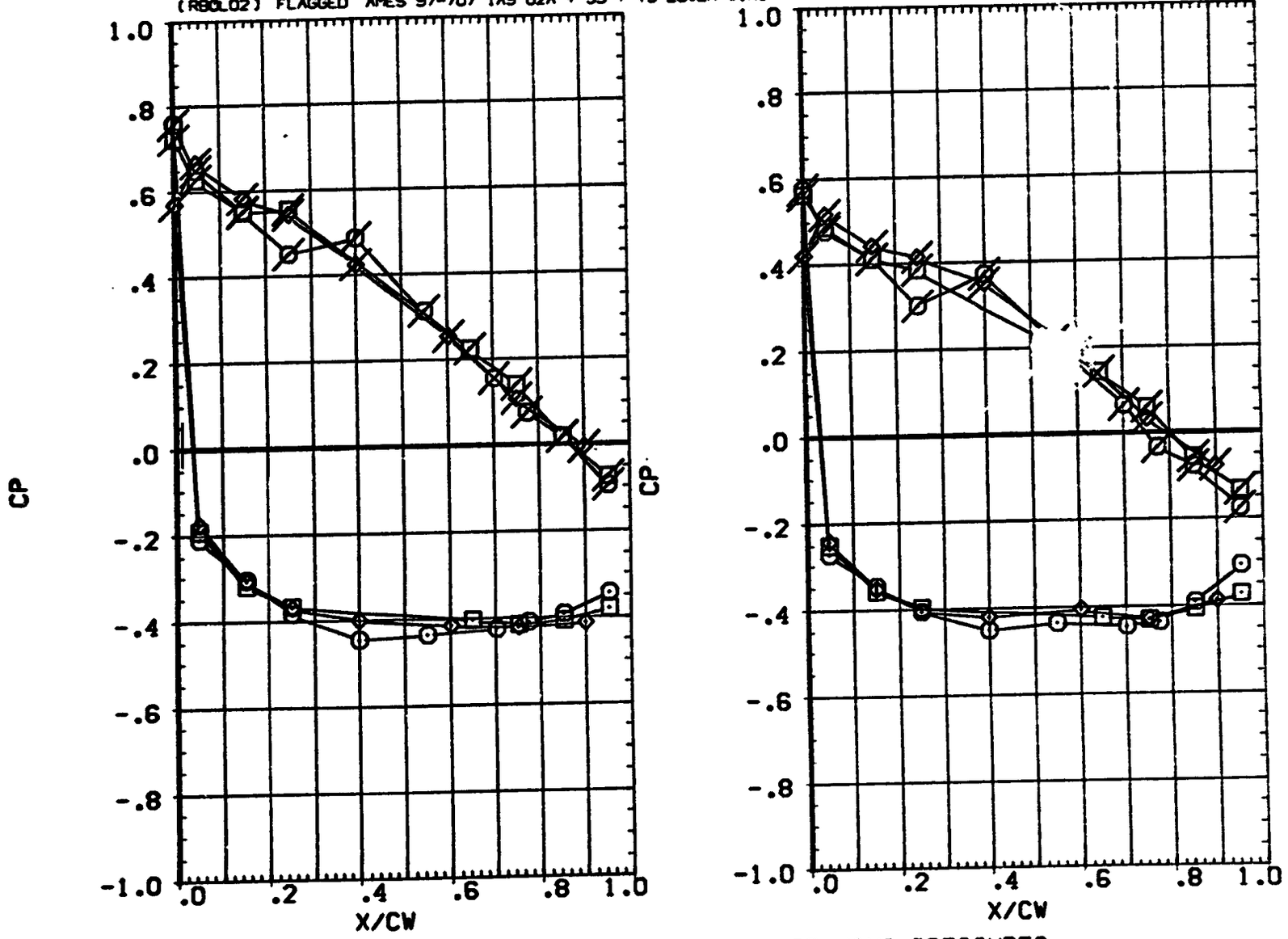
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	BETAT	MACH
○	.673	-5.100	1.555
□	.780	5.110	
◇	.887		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(R80U02)	OPEN	AMES 97-707 1A9 02A + S3 + T9 UPPER WING
(R80L02)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 LOWER WING



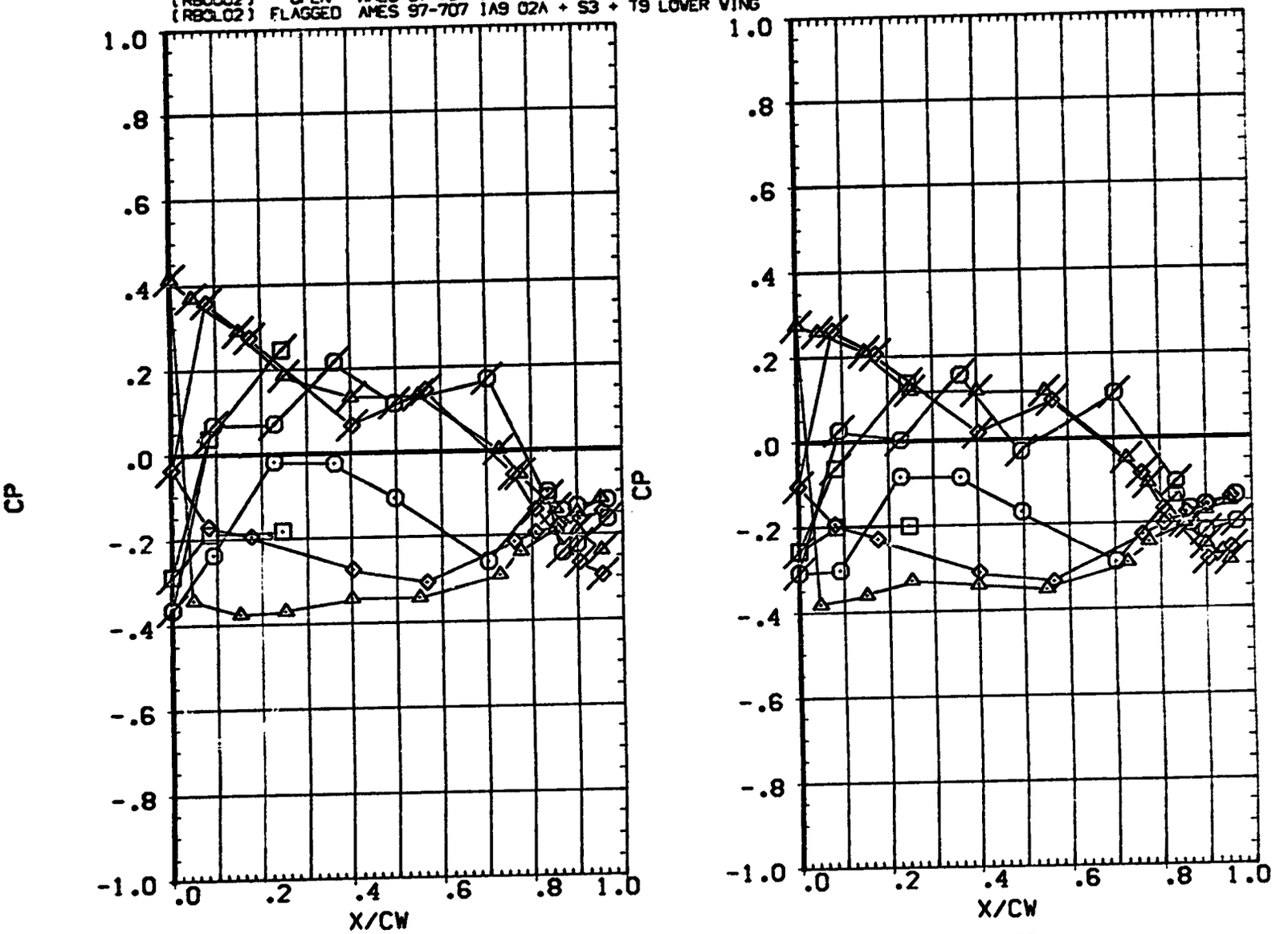
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.299	7.140	1.555
□	.364	9.190	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCU02)	OPEN	AMES 97-707 1A9 02A + S3 + T9 UPPER WING
(RBCL02)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 LOWER WING



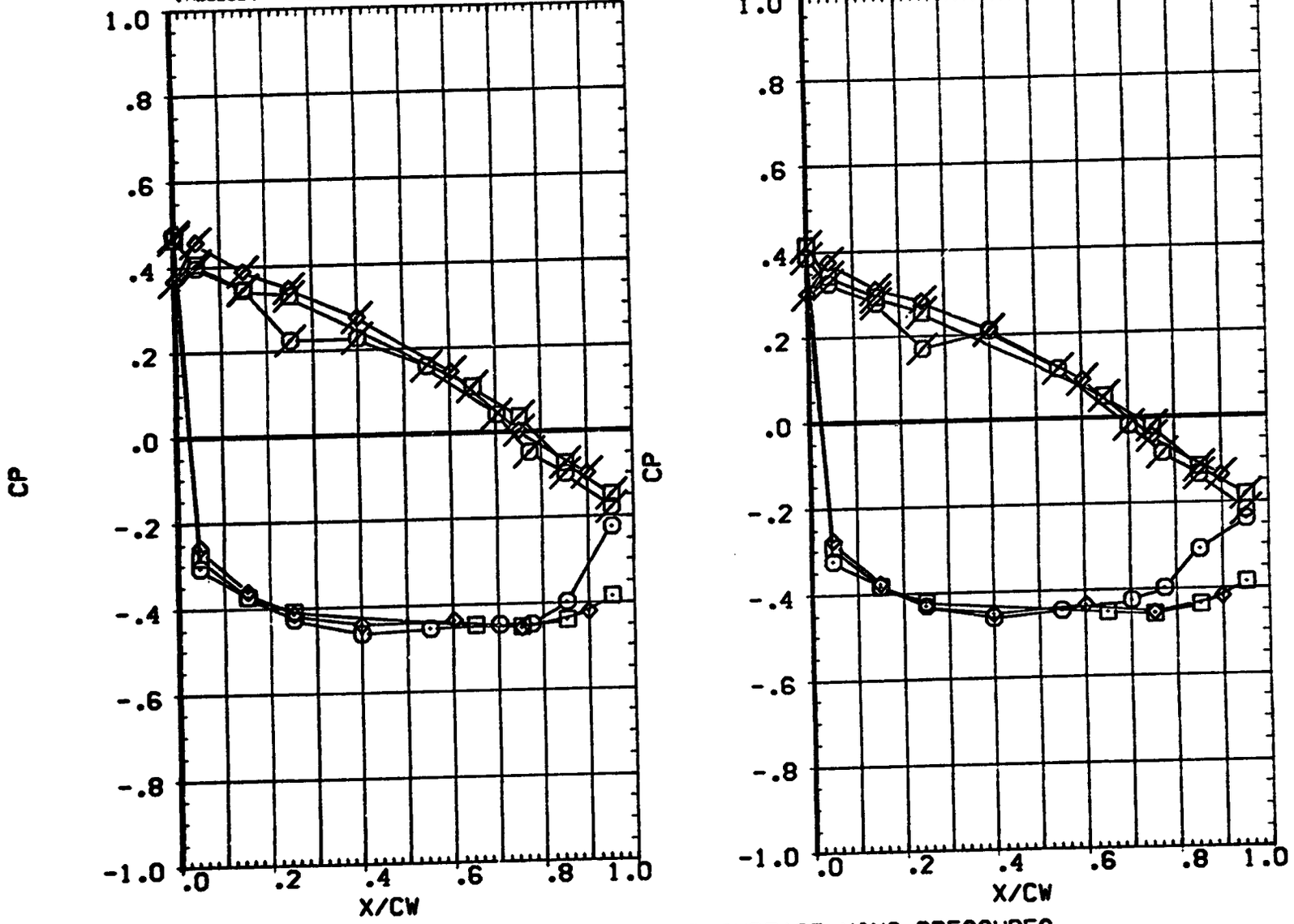
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.673	7.140	1.555
□	.780	9.190	
◇	.887		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOU02)	OPEN	AMES 97-707 IA9 02A + S3 + T9 UPPER WING
(RBOL02)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 LOWER WING



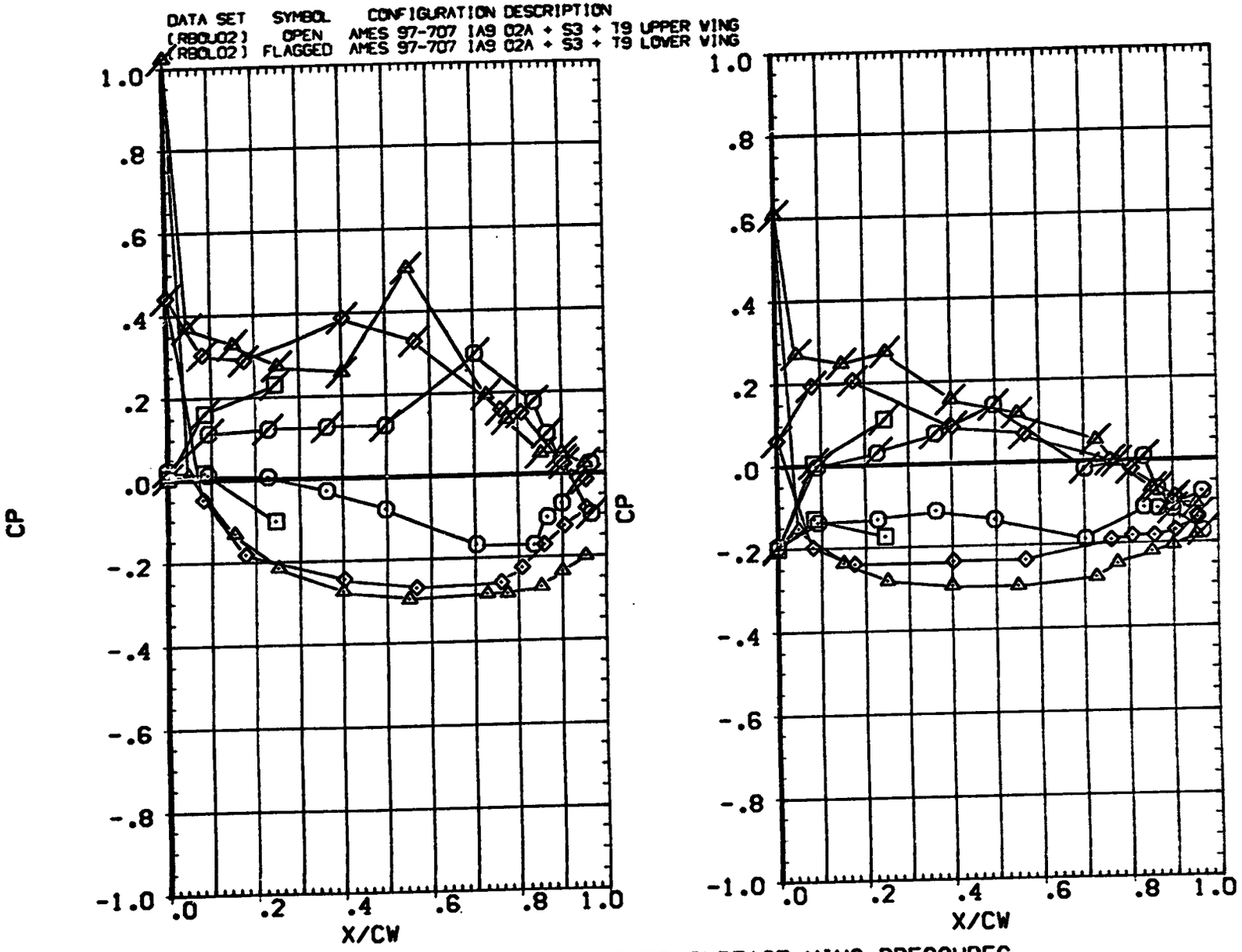
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	BETAT	MACH
○	.299	-6.270	2.000
□	.364	3.990	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOU02)	OPEN	AMES 97-707 1A9 02A + S3 + T9 UPPER WING
(RBOL02)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 LOWER WING



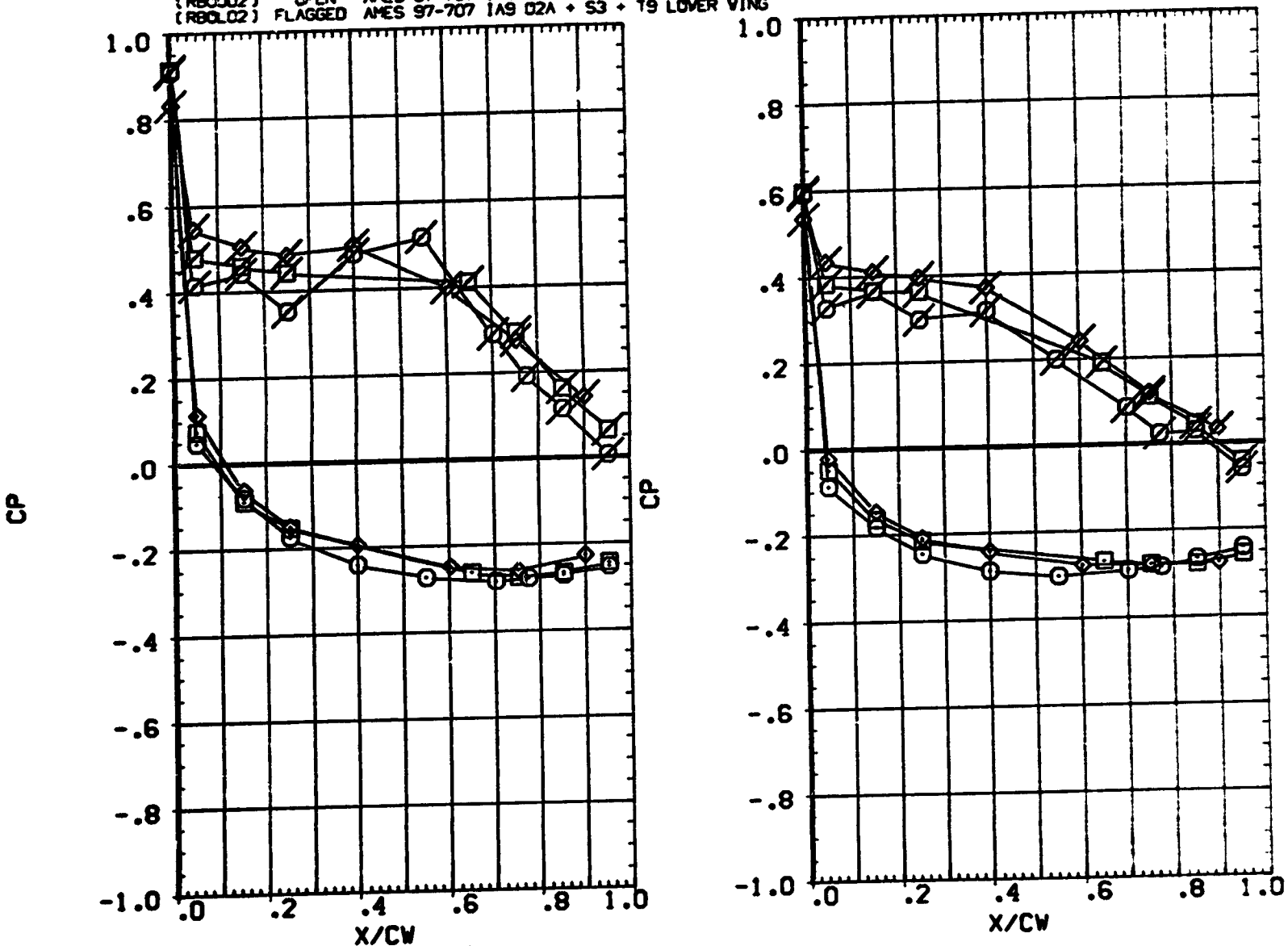
CHORDWISE DISTRIBUTION OF UPPER-AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	BETAT	MACH
○	.673	-6.270	2.000
□	.780	3.990	
◇	.887		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCU02)	OPEN	AMES 97-707 1A9 D2A + S3 + T9 UPPER WING
(RBCL02)	FLAGGED	AMES 97-707 1A9 D2A + S3 + T9 LOWER WING



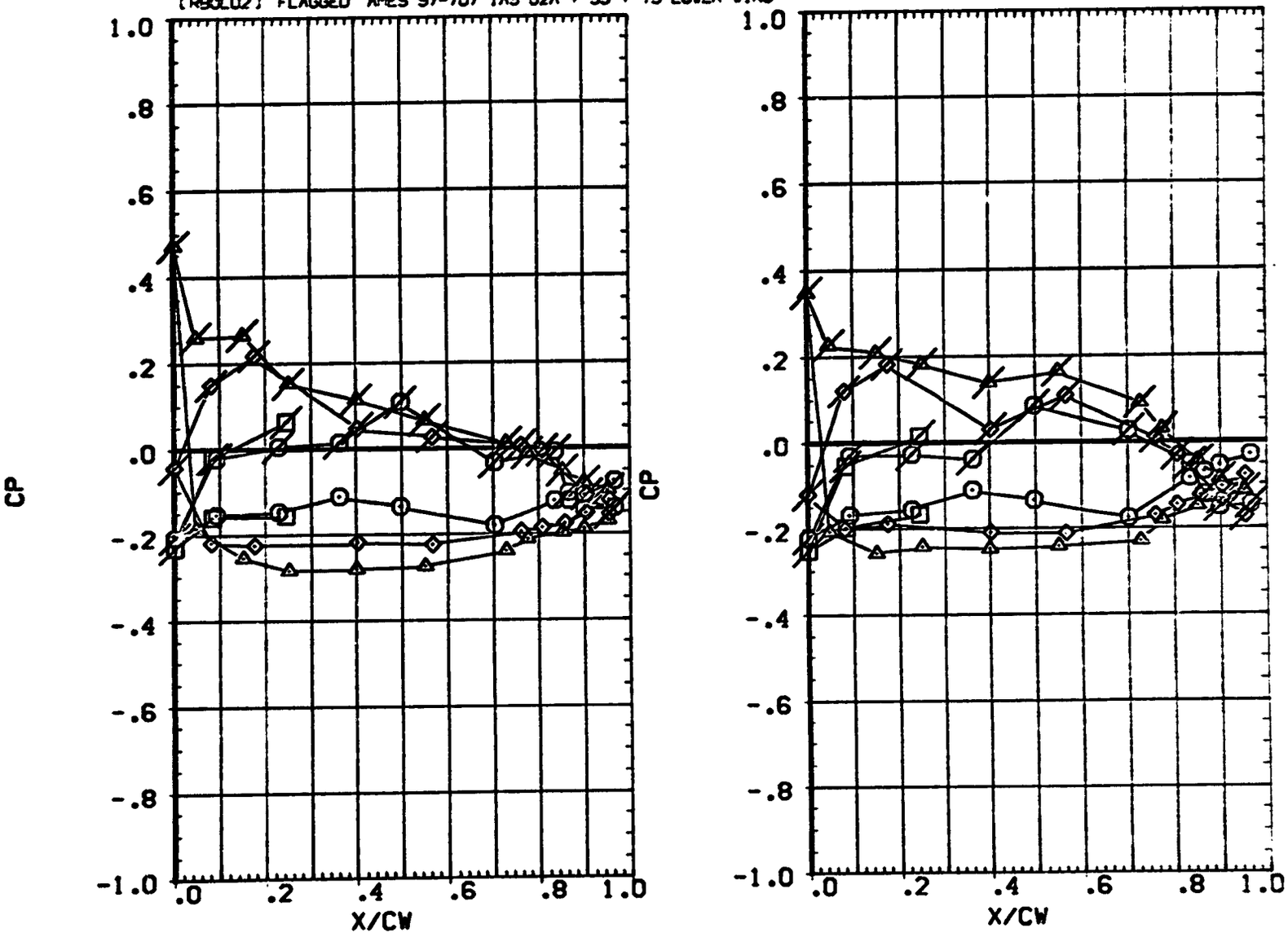
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	BETAT	MACH
○	.299	6.060	2.000
□	.364	8.120	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVCN	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOJ02)	OPEN	AMES 97-707 IA9 02A + S3 + T9 UPPER WING
(RBOL02)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 LOWER WING



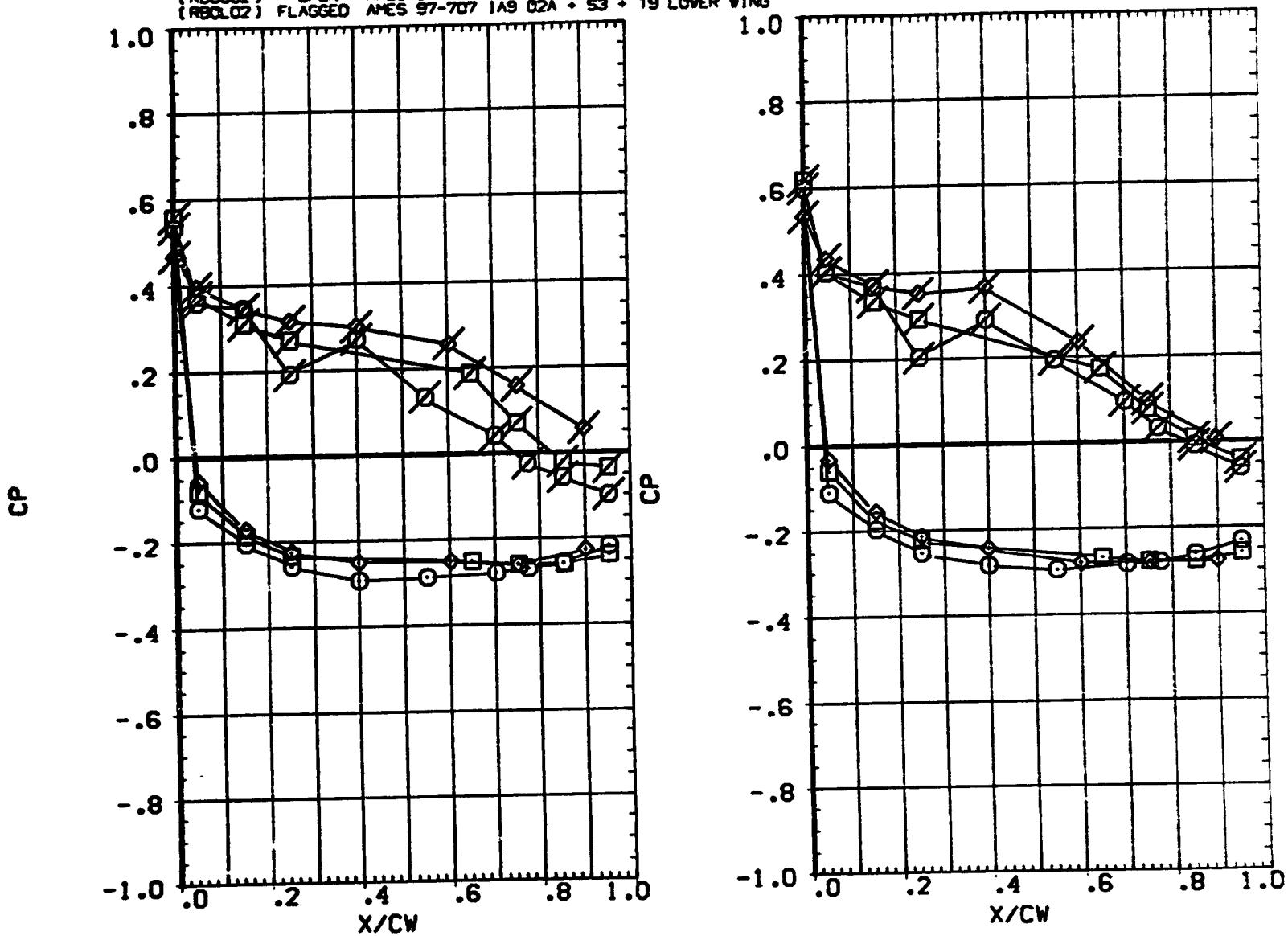
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.673	6.060	2.000
□	.780	8.120	
◇	.887		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOU02)	OPEN	AMES 97-707 IA9 02A + S3 + T9 UPPER WING
(RBOL02)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 LOWER WING



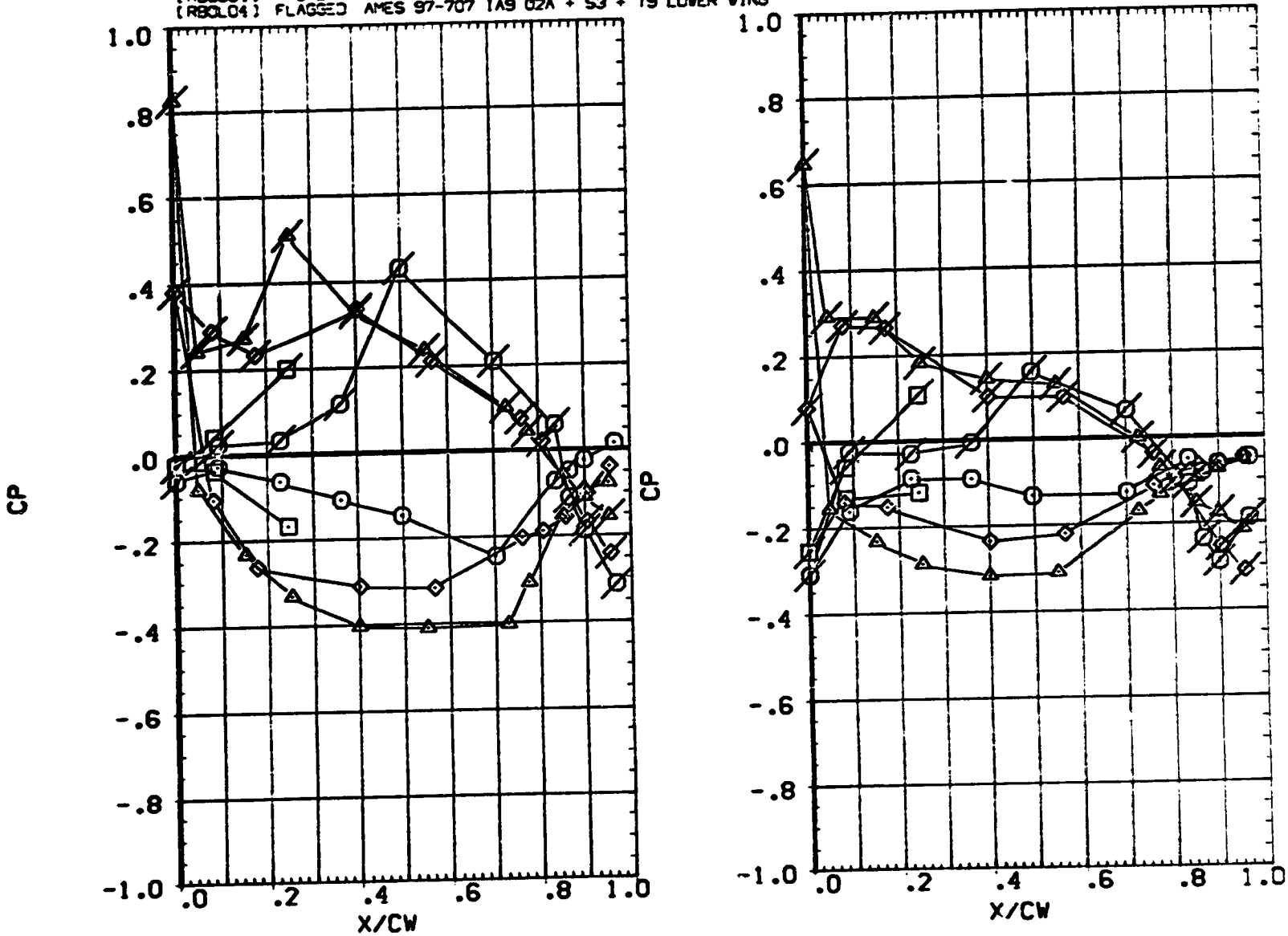
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	BETAT	MACH
○	.299	-5.070	1.555
□	.364	5.060	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHAT	4.000	CRBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[RBDJ04]	OPEN	AMES 97-707 IA9 02A + S3 + T9 UPPER WING
[RBDL04]	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 LOWER WING

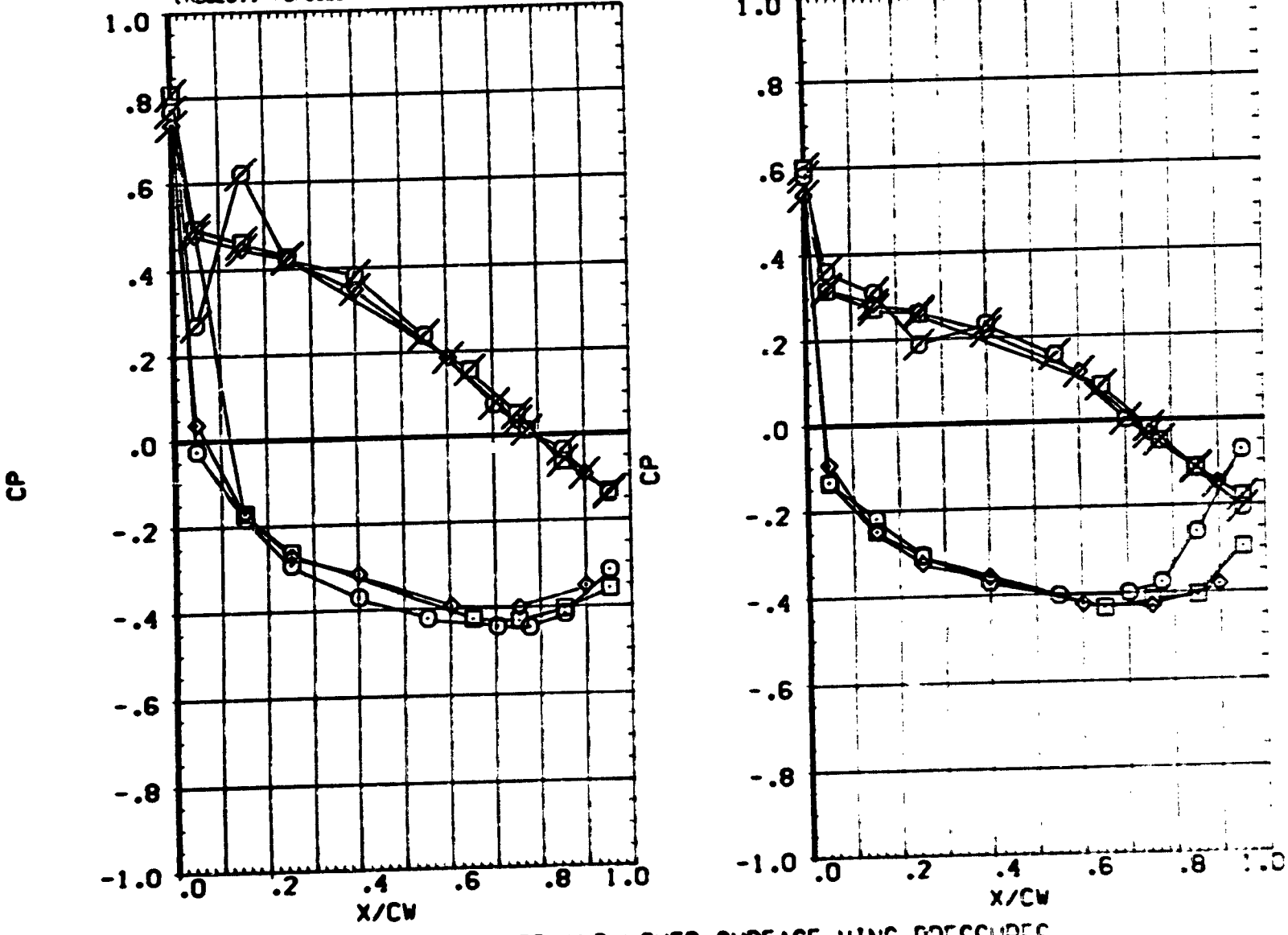


SYMBOL	Y/BW	BETAT	MACH
○	.673	-5.070	1.555
□	.780	5.060	
◇	.887		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
AILER	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCL04)	OPEN	AMES 97-707 1A9 02A + S3 + T9 UPPER WING
(RBCL04)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 LOWER WING

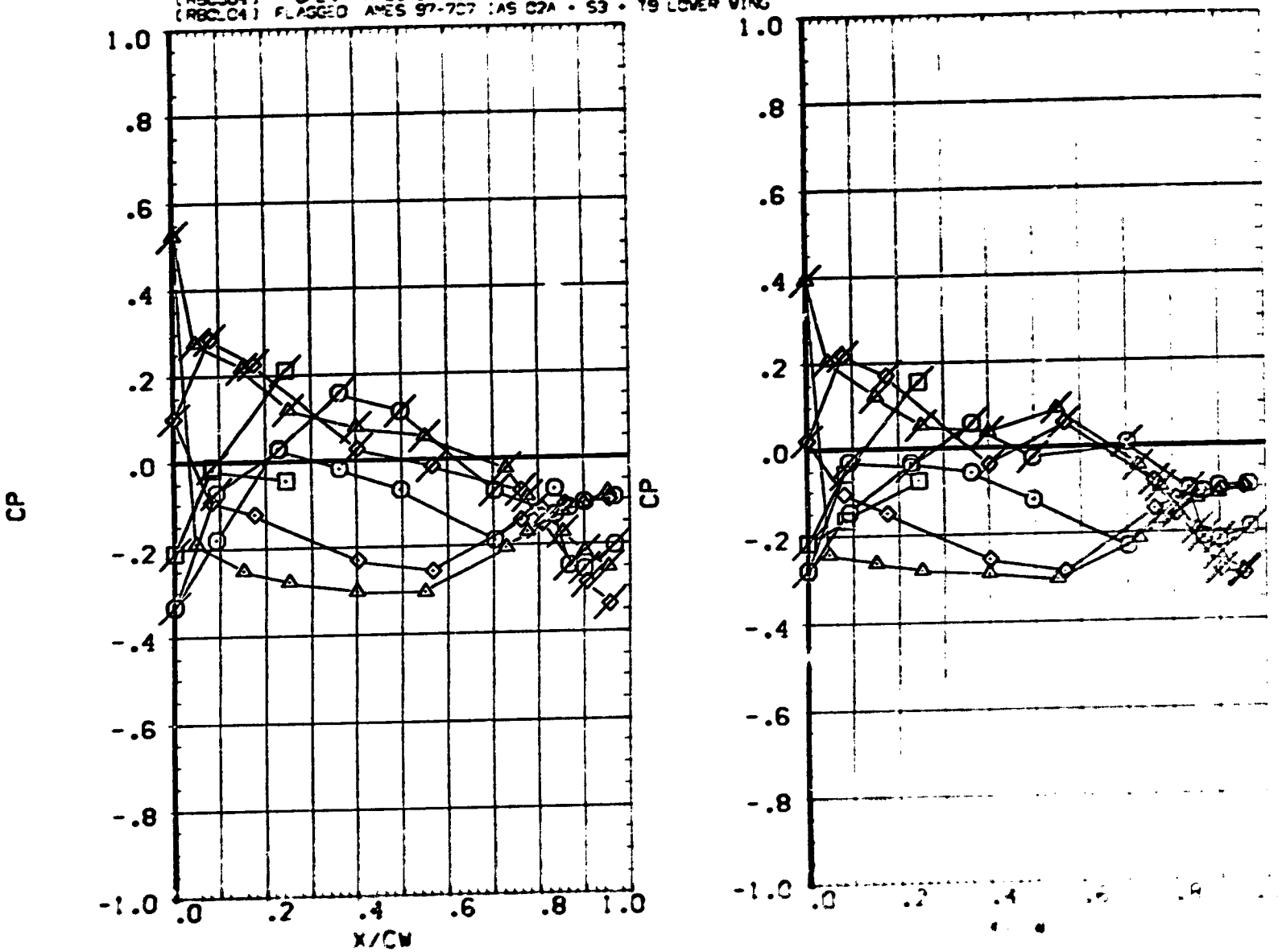


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
	.299	7.080	1.555
	.364	9.100	
	.427		
	.534		

PARAMETRIC VALUES			
ALPHAT	4.000	[illegible]	.000
RLOCER	.000	[illegible]	.000
RLOCLO	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCU04)	OPEN	AMES 97-707 :A9 D2A + S3 + T9 UPPER WING
(RBCL04)	FLAGGED	AMES 97-707 :A9 D2A + S3 + T9 LOWER WING

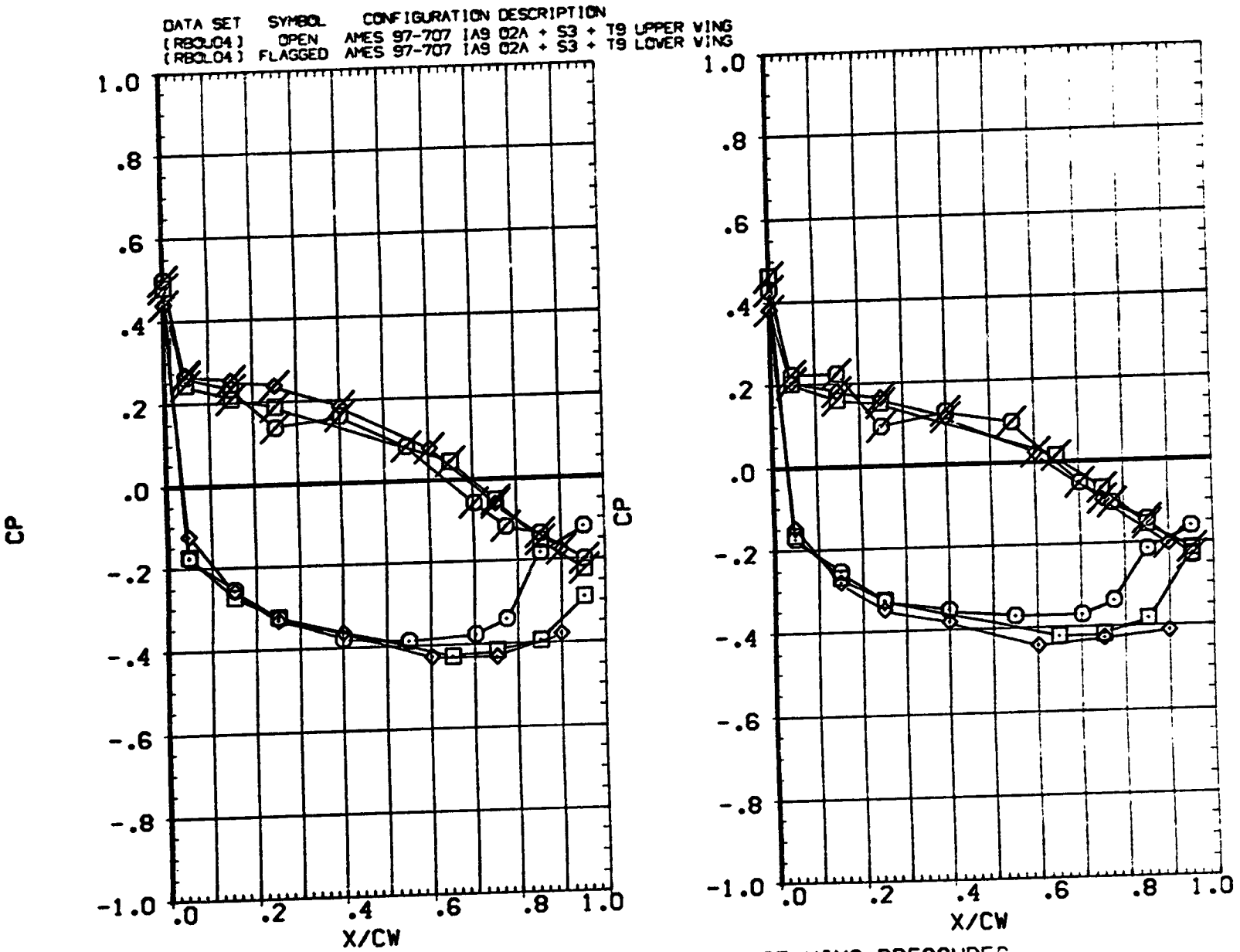


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE [illegible]

SYMBOL	Y/BW	BETAT	MACH
○	.673	7.080	1.555
□	.780	9.100	
◇	.887		

PARAMETRIC VALUES

ALPHAT	4.000	[illegible]	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



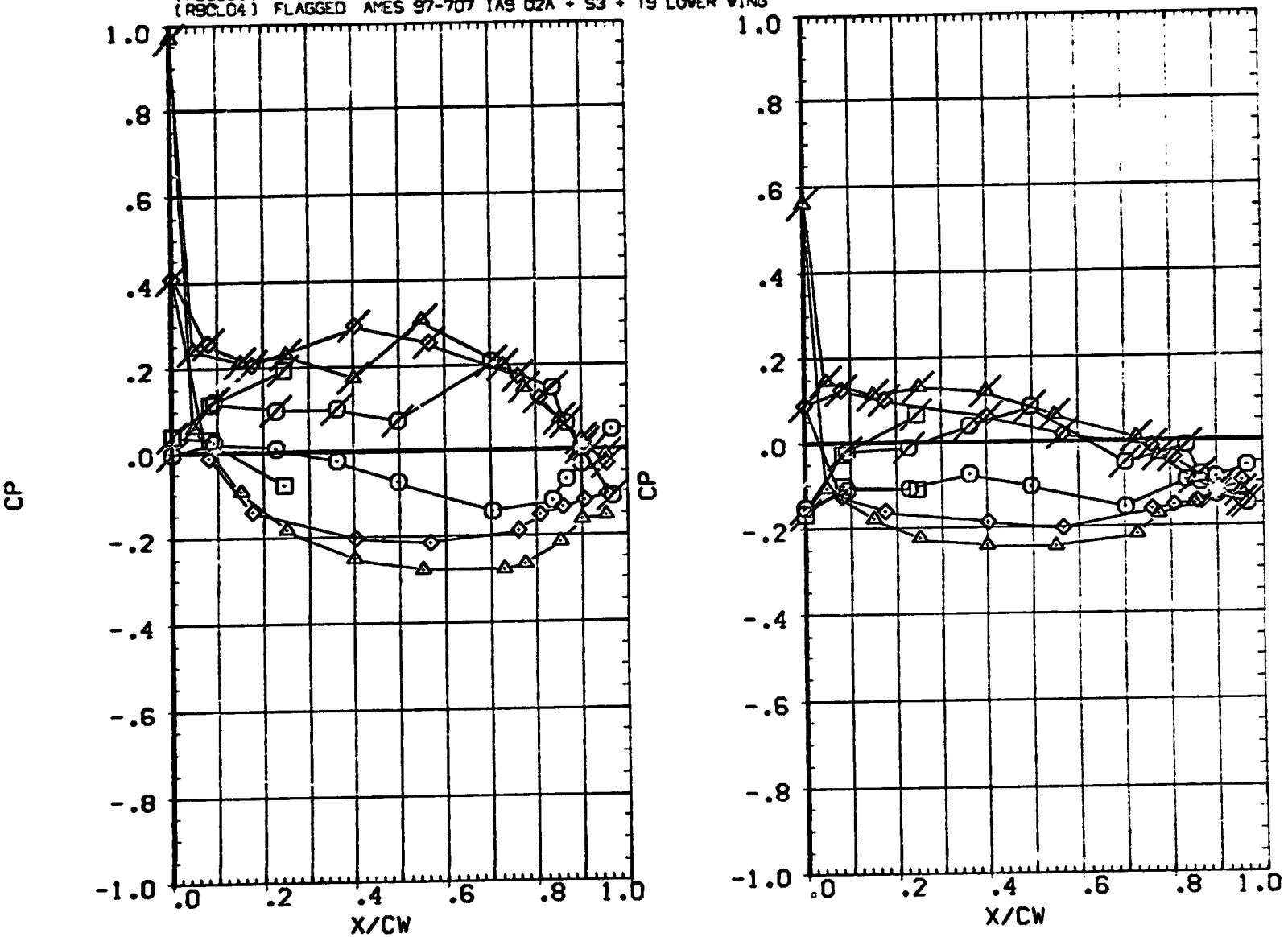
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.299	-6.240	2.000
□	.364	3.950	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHAT	4.000	[illegible]	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCL04)	OPEN	AMES 97-707 IA9 02A + S3 + T9 UPPER WING
(RBCL04)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 LOWER WING



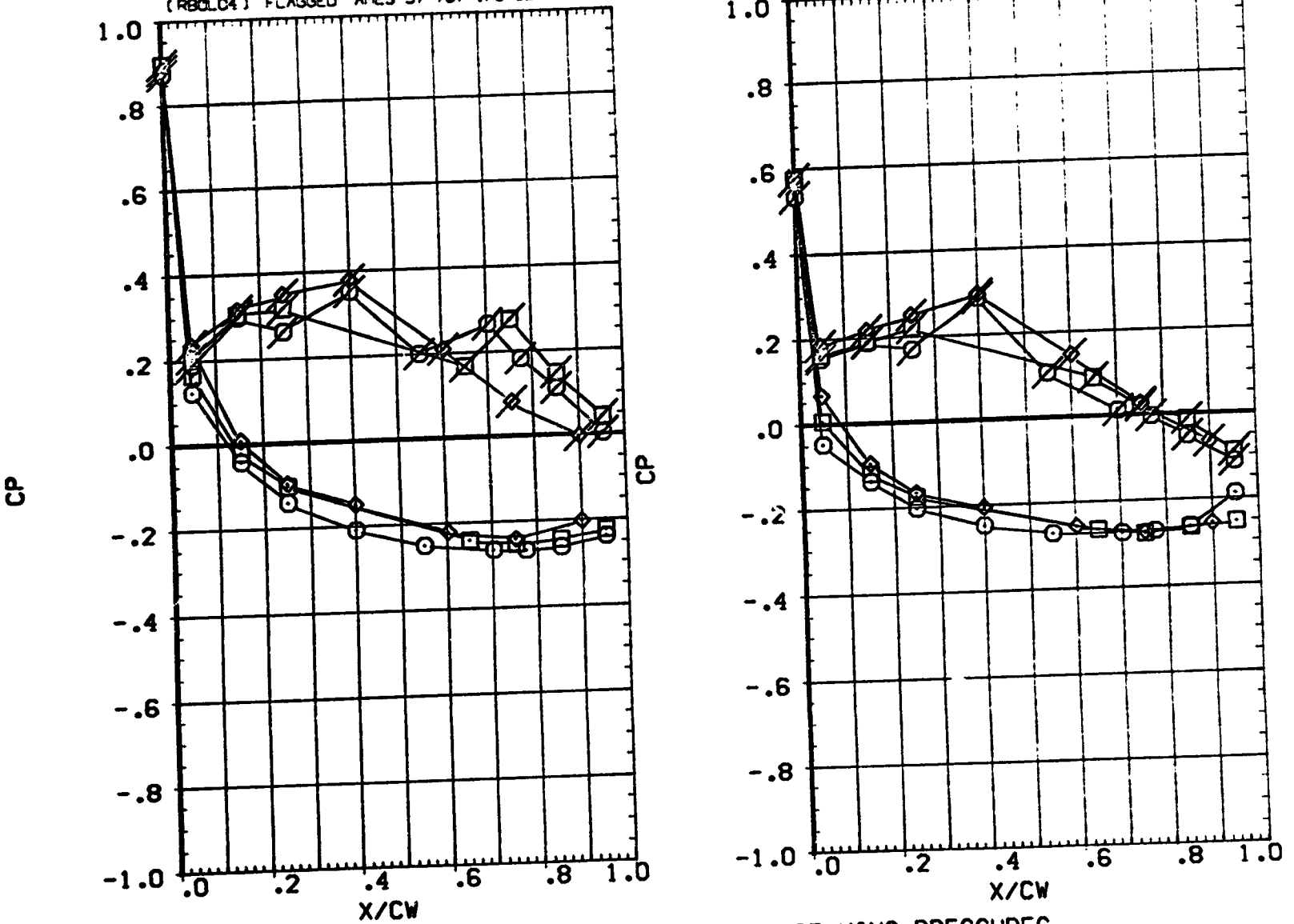
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.673	-6.240	2.000
□	.780	3.950	
◇	.887		

PARAMETRIC VALUES

ALPHAT	4.000	DRGINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCU04)	OPEN	AMES 97-707 1A9 02A + S3 + T9 UPPER WING
(RBCL04)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 LOWER WING



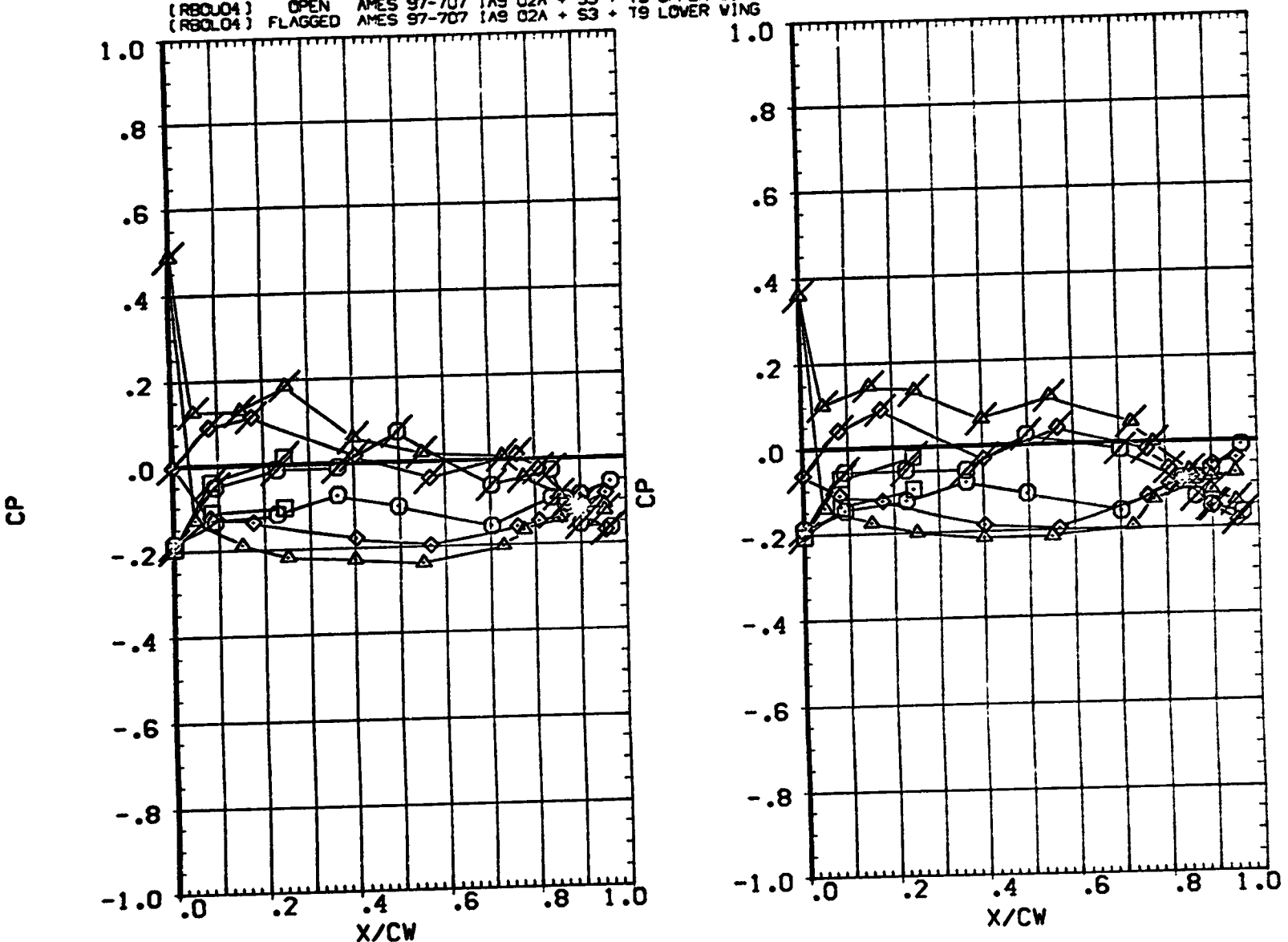
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.298	5.990	2.000
□	.364	8.030	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDF_R	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOU04)	OPEN	AMES 97-707 1A9 02A + S3 + T9 UPPER WING
(RBOL04)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 LOWER WING



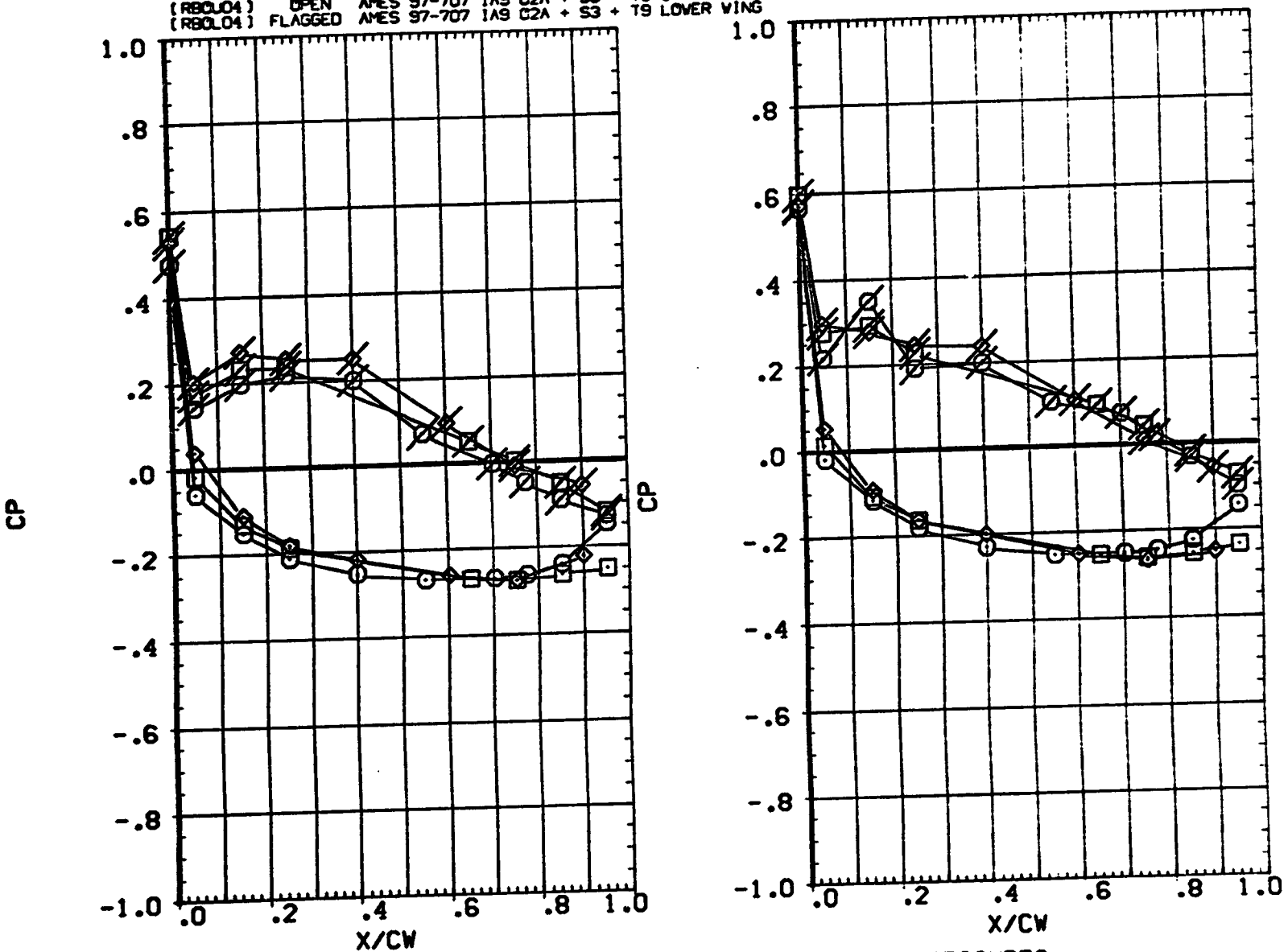
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	BETAT	MACH
○	.673	5.990	2.000
□	.780	8.030	
◇	.887		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOU04)	OPEN	AMES 97-707 IA9 O2A + S3 + T9 UPPER WING
(RBOL04)	FLAGGED	AMES 97-707 IA9 O2A + S3 + T9 LOWER WING



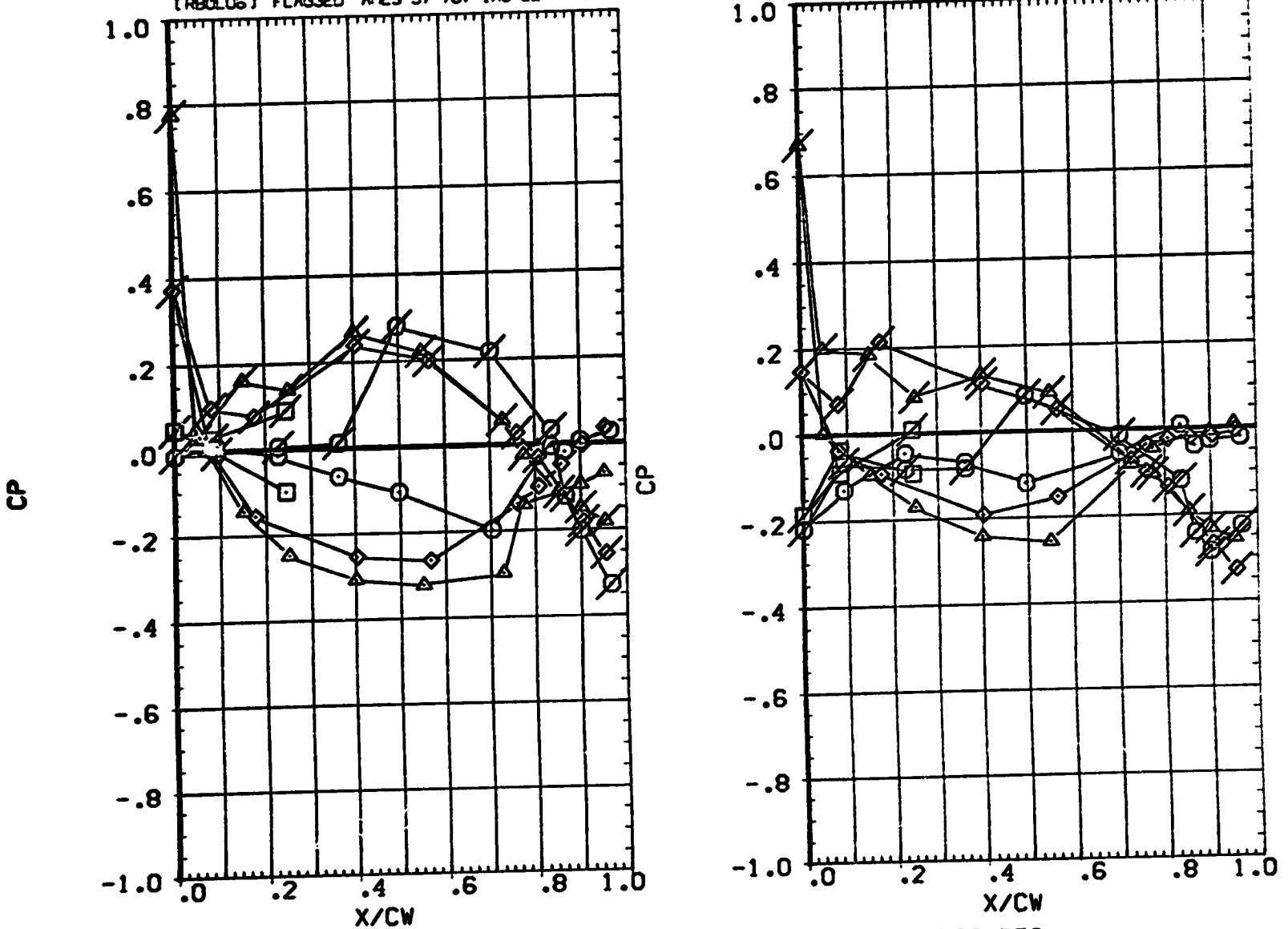
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	BETAT	MACH
○	.299	-5.080	1.555
□	.364	5.050	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[RBOUO6]	OPEN	AMES 97-707 IA9 D2A + S3 + T9 UPPER WING
[RBOLO6]	FLAGGED	AMES 97-707 IA9 D2A + S3 + T9 LOWER WING



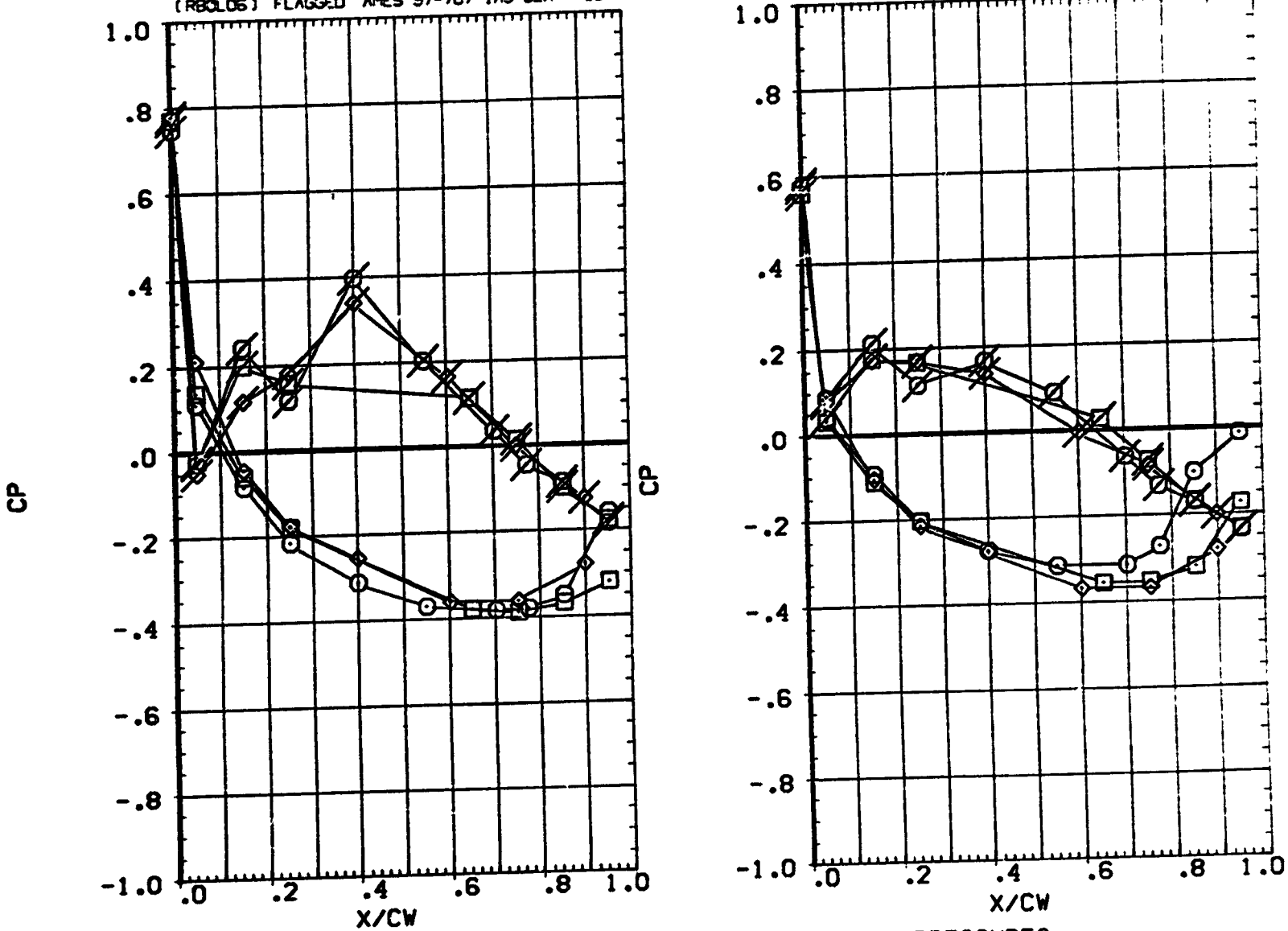
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.673	-5.000	1.555
□	.780	5.050	
◇	.887		

PARAMETRIC VALUES

ALPHAT	.000	DRGINC	.500
RUDDER	.000	ELEVCN	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOL06)	OPEN	AMES 97-707 1A9 02A + S3 + T9 UPPER WING
(RBOL06)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 LOWER WING



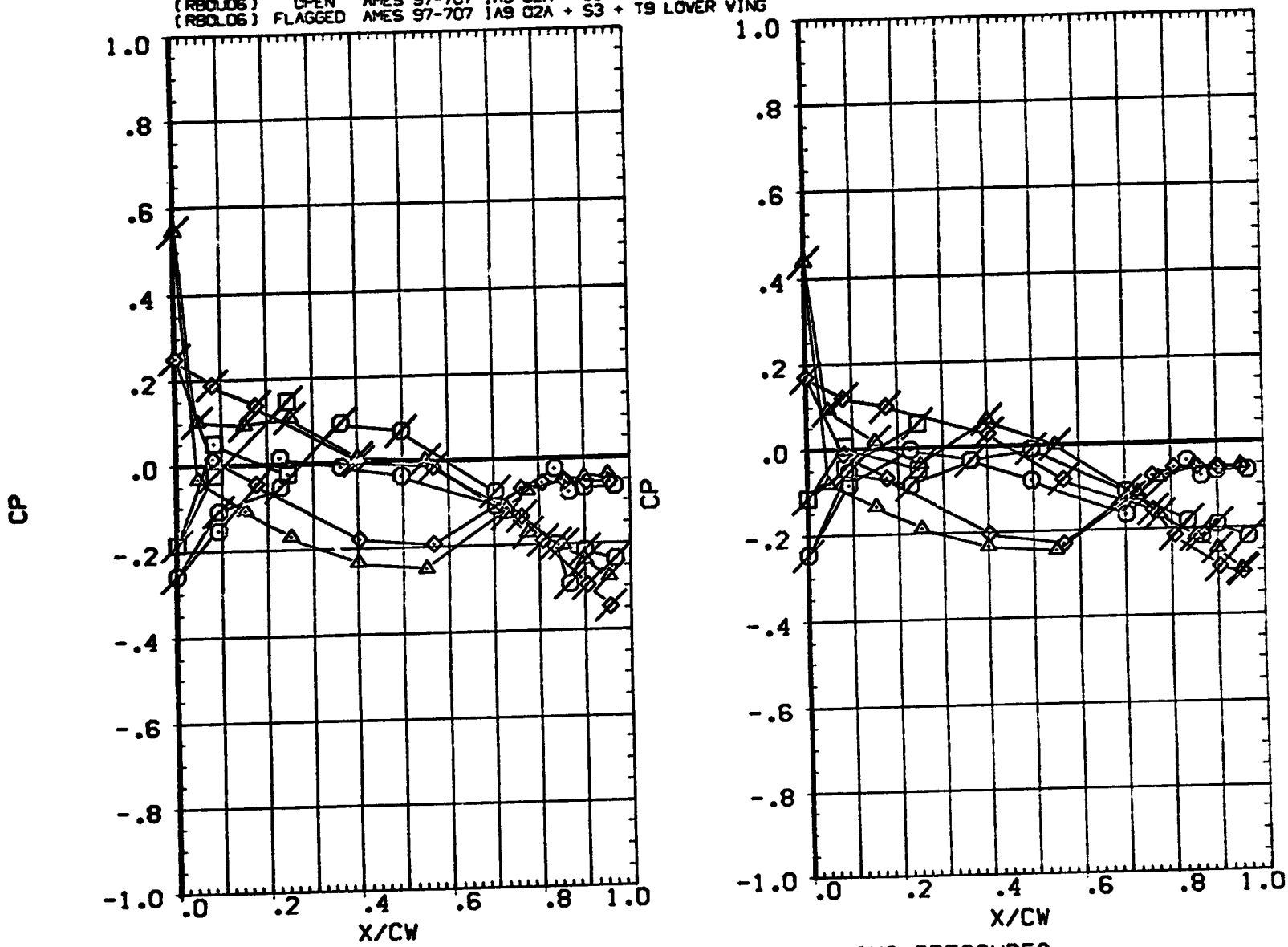
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	BETAT	MACH
	.299	7.060	1.555
	.364	9.090	
	.427		
	.534		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBDU06)	OPEN	AMES 97-707 IA9 02A + S3 + T9 UPPER WING
(RBDL06)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 LOWER WING



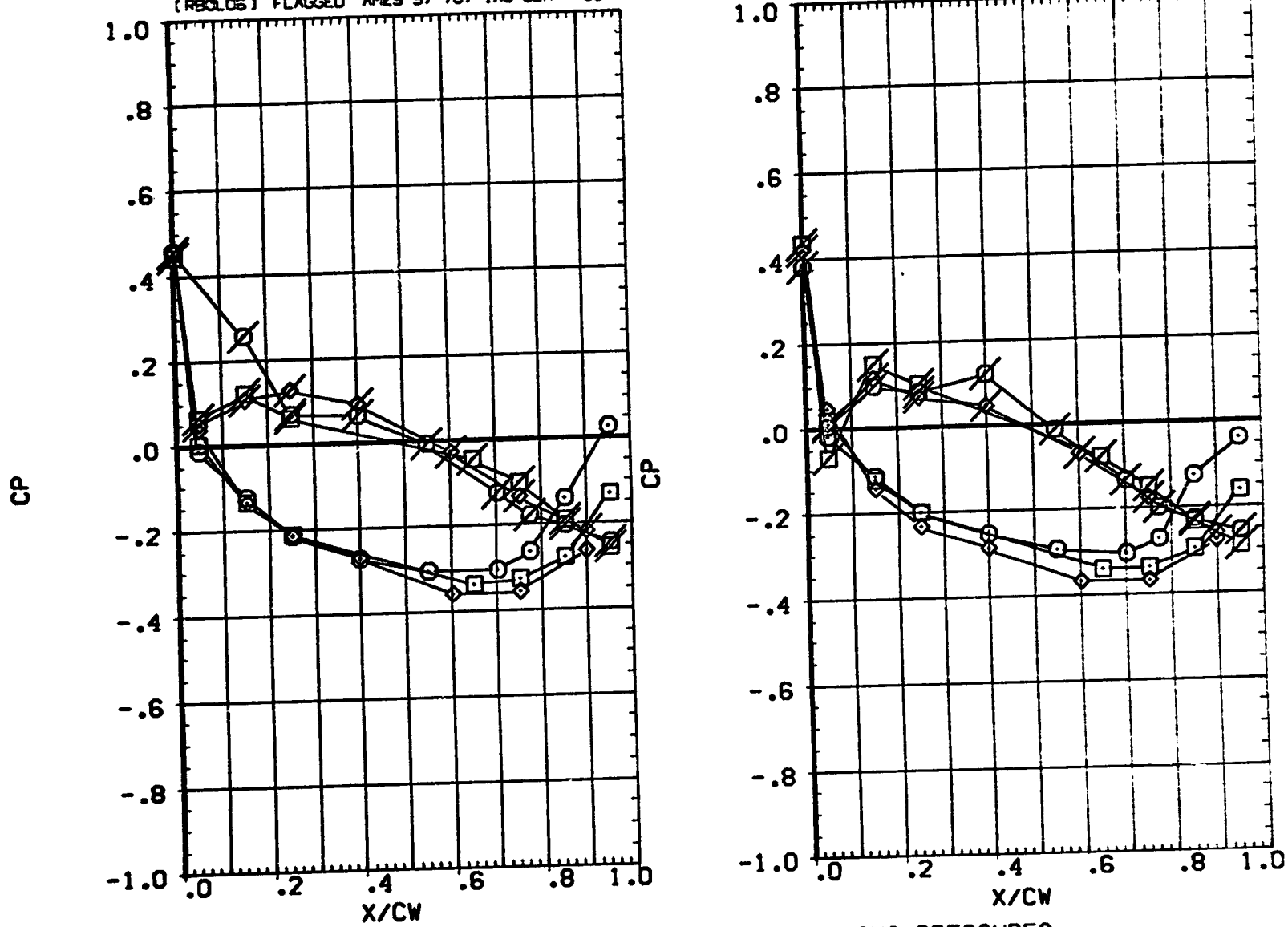
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	BETAT	MACH
○	.673	7.060	1.555
□	.780	9.090	
◇	.887		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[RBOUOS]	OPEN	AMES 97-707 1A9 02A + S3 + T9 UPPER WING
[RBOLOS]	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 LOWER WING



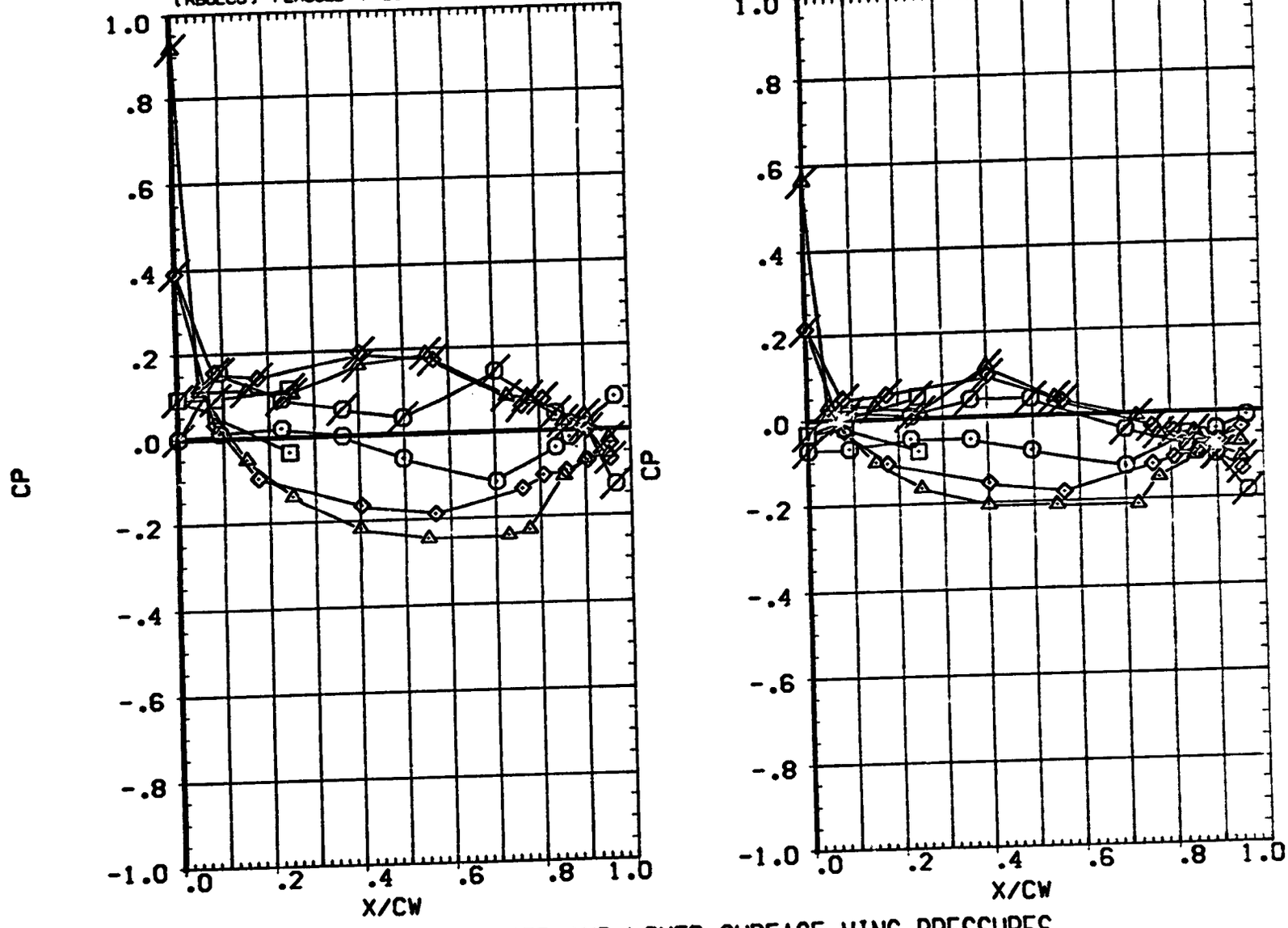
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	BETAT	MACH
	.299	-6.250	2.000
	.364	-.130	
	.427		
	.534		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOU06)	OPEN	AMES 97-707 1A9 02A + S3 + T9 UPPER WING
(RBOL06)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 LOWER WING



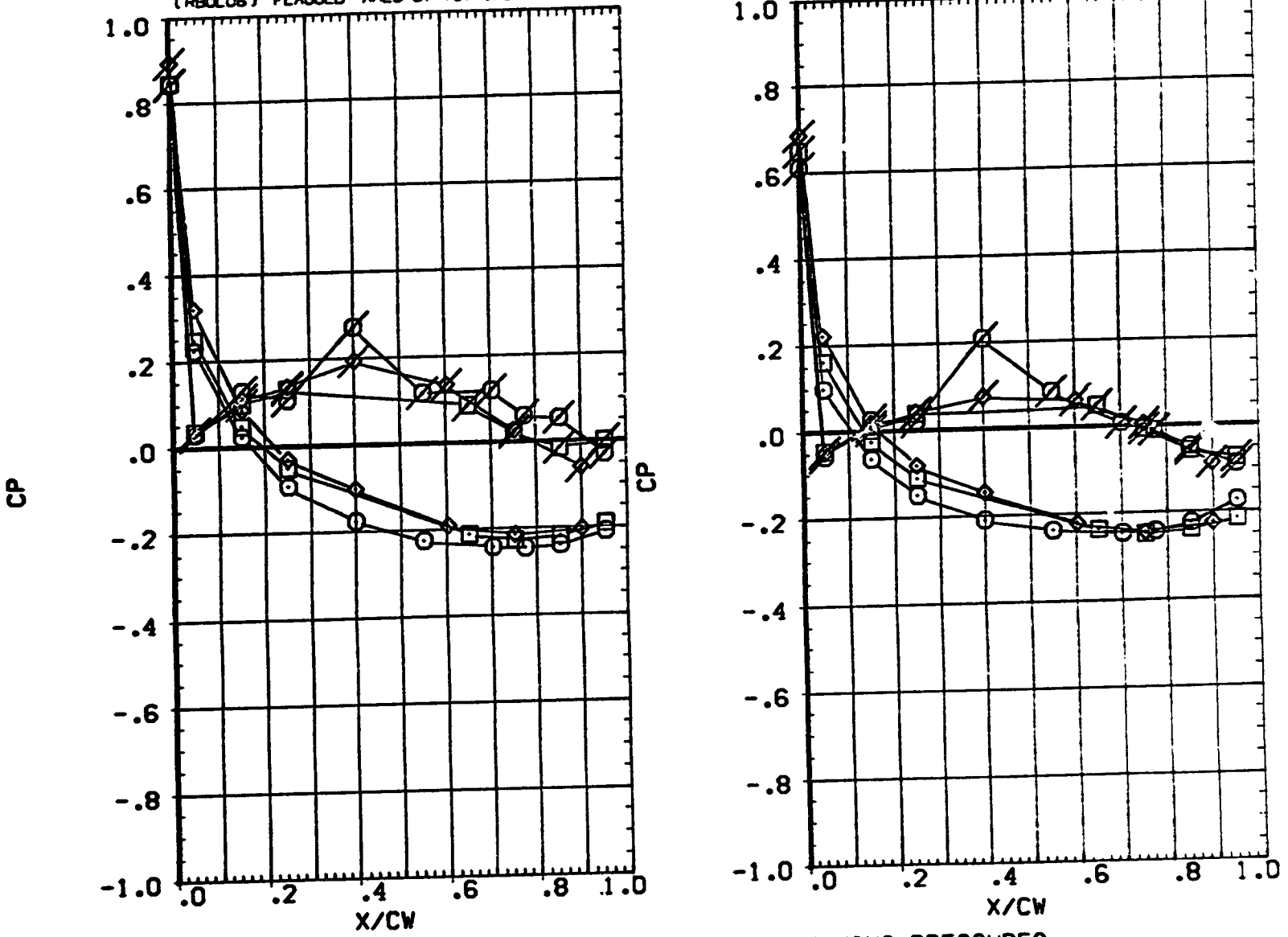
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.673	-6.250	2.000
□	.780	-.130	
◇	.887		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOUO6)	OPEN	AMES 97-707 1A9 02A + S3 + T9 UPPER WING
(RBOLO6)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 LOWER WING



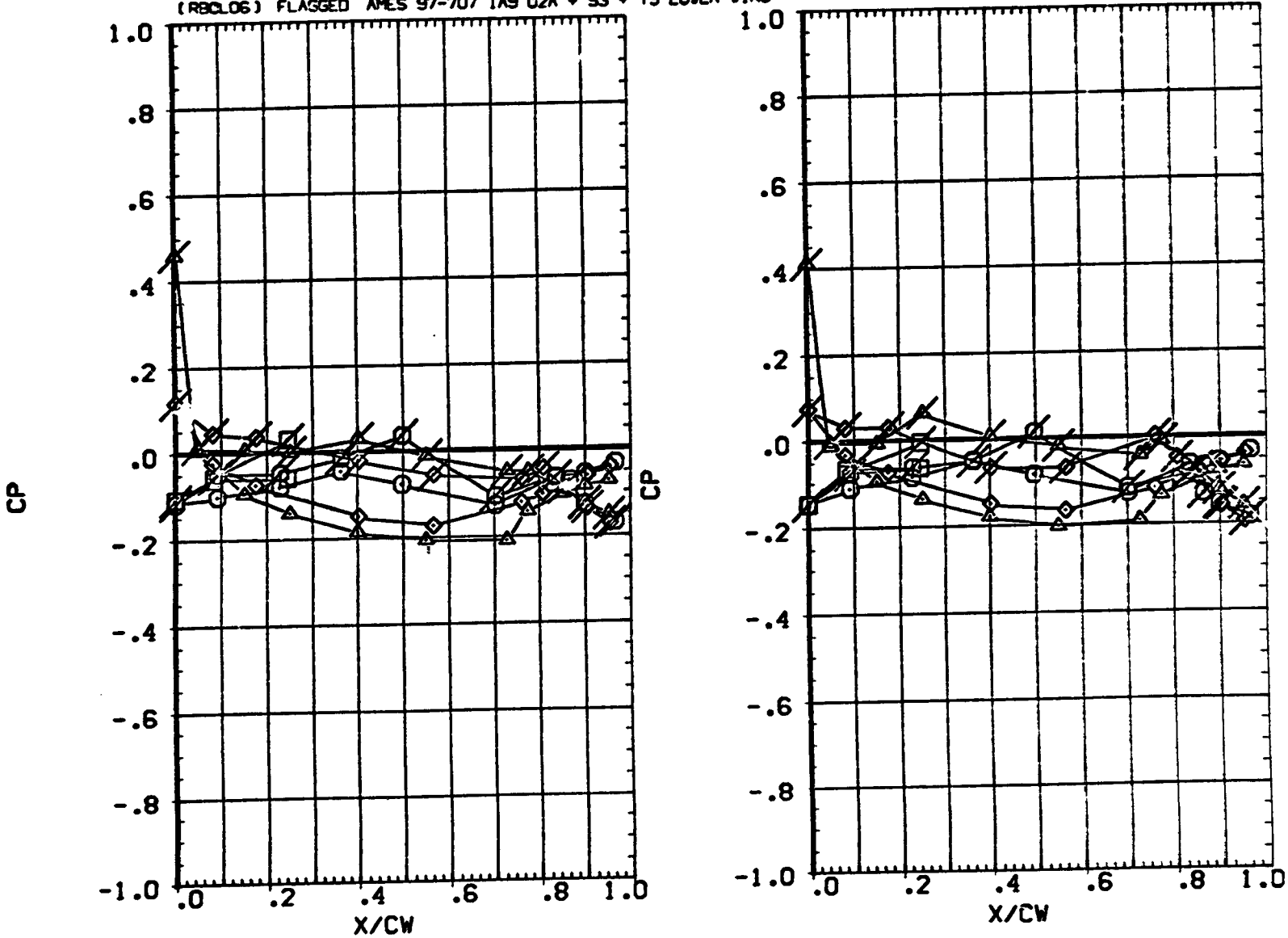
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.299	3.950	2.000
□	.364	5.980	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCUO6)	OPEN	AMES 97-707 1A9 02A + S3 + T9 UPPER WING
(RBCLO6)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 LOWER WING



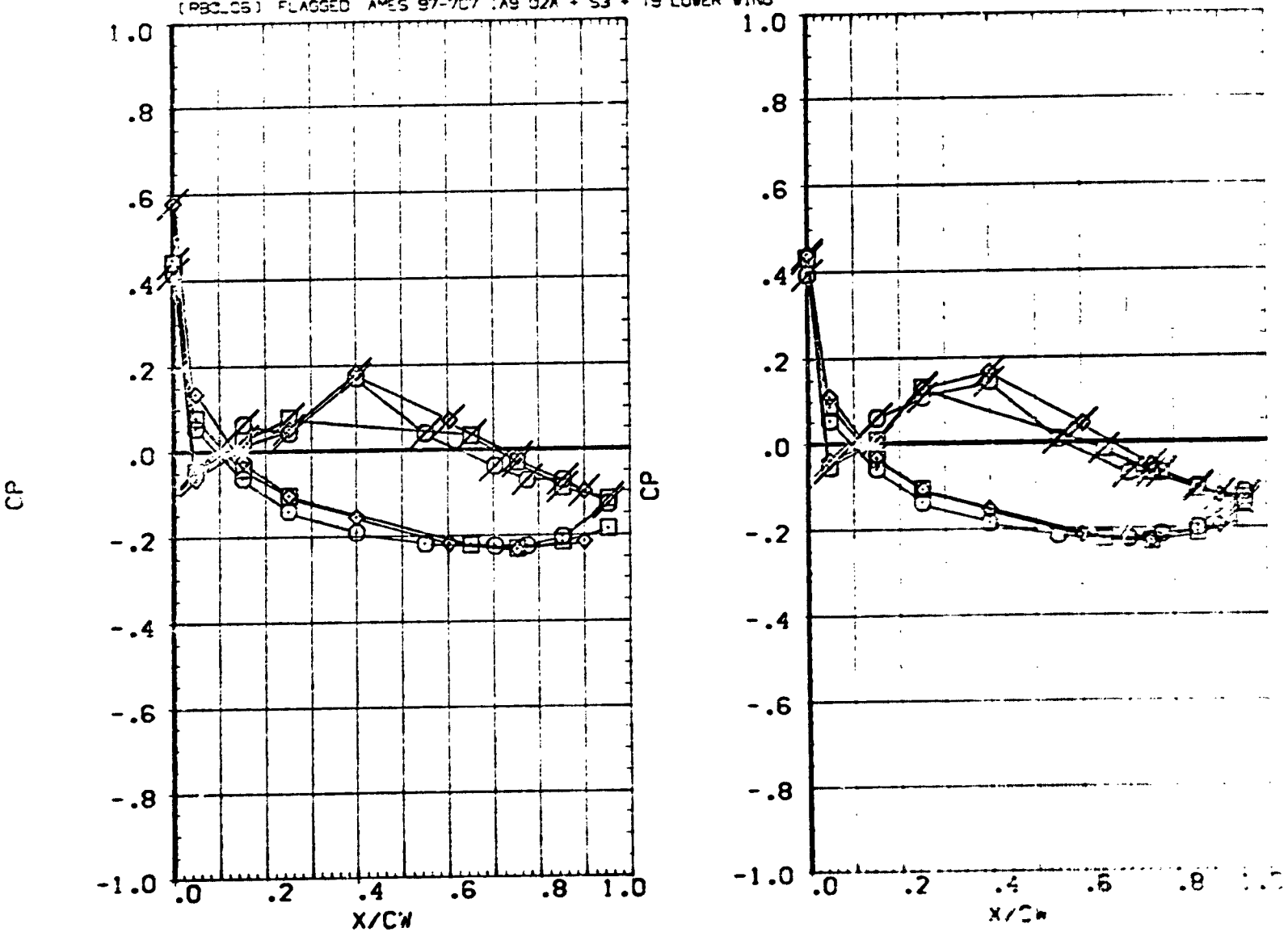
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.673	3.950	2.000
□	.780	5.980	
◇	.897		

PARAMETRIC VALUES

ALPHAT	.000	DRBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PBCUC6)	OPEN	AMES 97-707 :A9 02A + S3 + T9 UPPER WING
(PBCLC6)	FLAGGED	AMES 97-707 :A9 02A + S3 + T9 LOWER WING



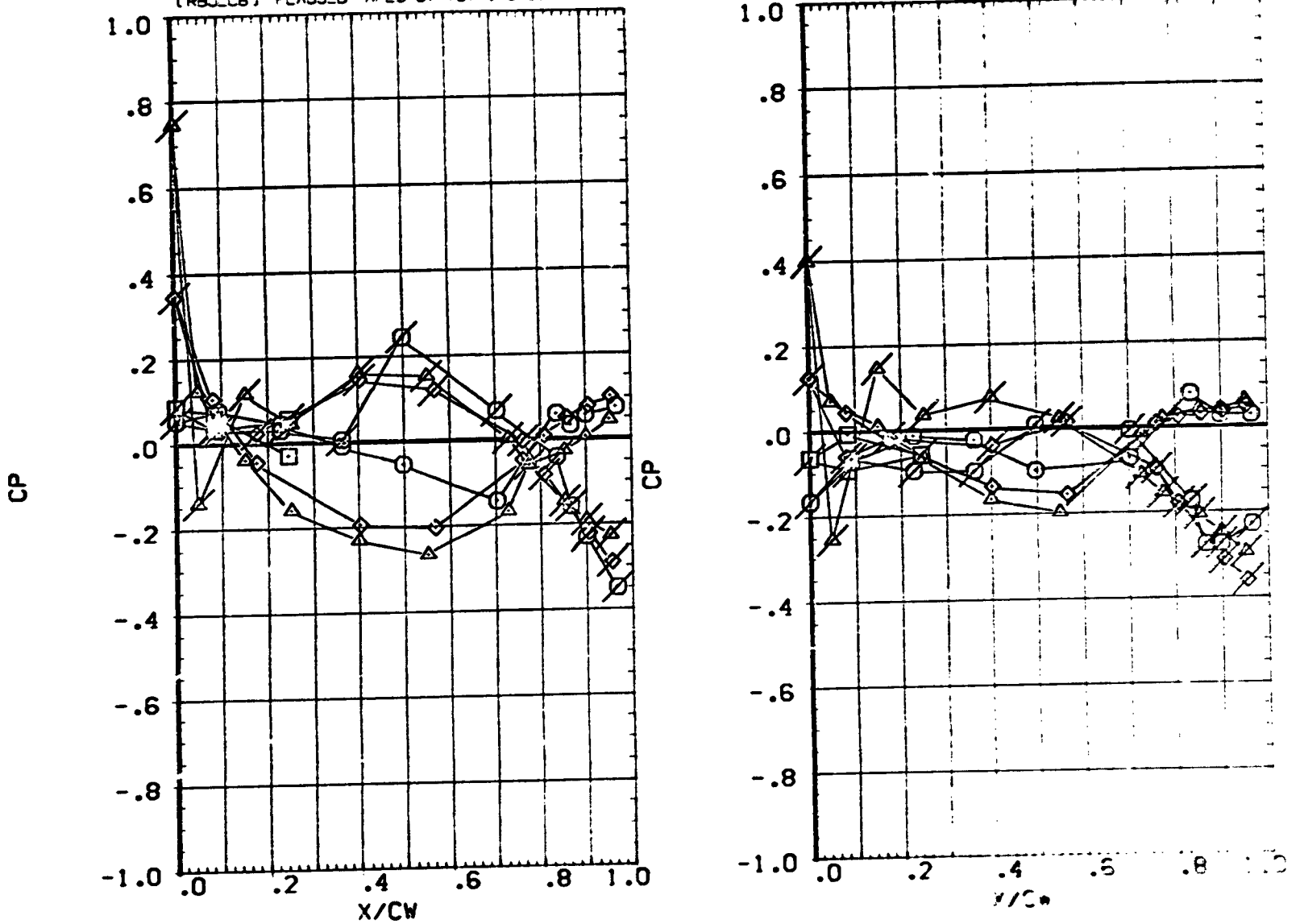
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B/2	BETAT	MACH
○	.299	-6.150	1.555
□	.364	5.030	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHAT	-4.000	SYMINC	.500
RUDDER	.000	ELEVON	.000
RUDDLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[R9CUC8]	OPEN	AMES 97-707 IA9 C2A + S3 + T9 UPPER WING
[R8CLC8]	FLAGGED	AMES 97-707 IA9 C2A + S3 + T9 LOWER WING



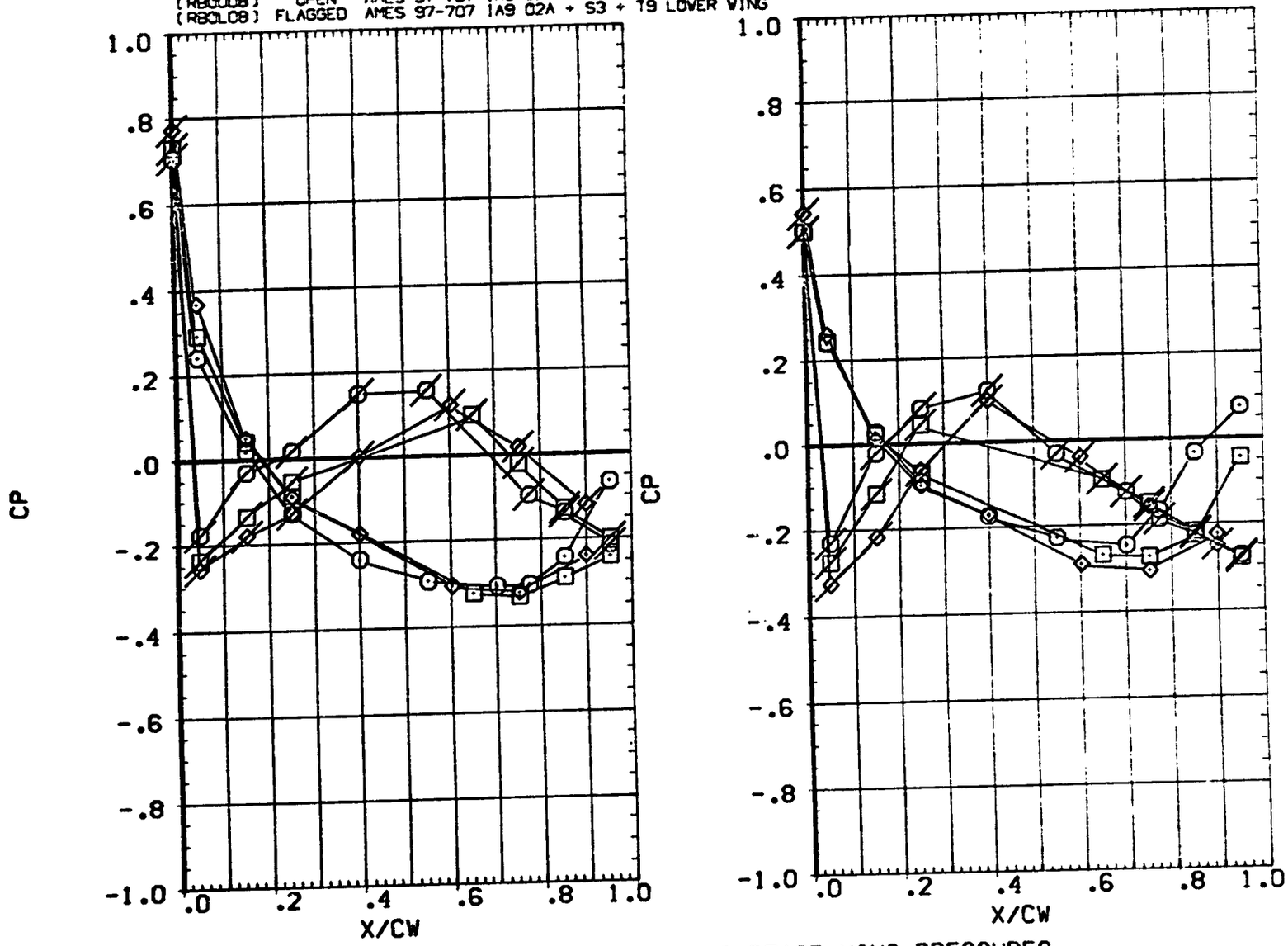
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	BETAT	MACH
○	.673	-6.150	1.555
□	.780	5.030	
◇	.887		

PARAMETRIC VALUES

ALPHAT	-4.000	DRBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOUD8)	OPEN	AMES 97-707 IA9 D2A + S3 + T9 UPPER WING
(RBOLD8)	FLAGGED	AMES 97-707 IA9 D2A + S3 + T9 LOWER WING



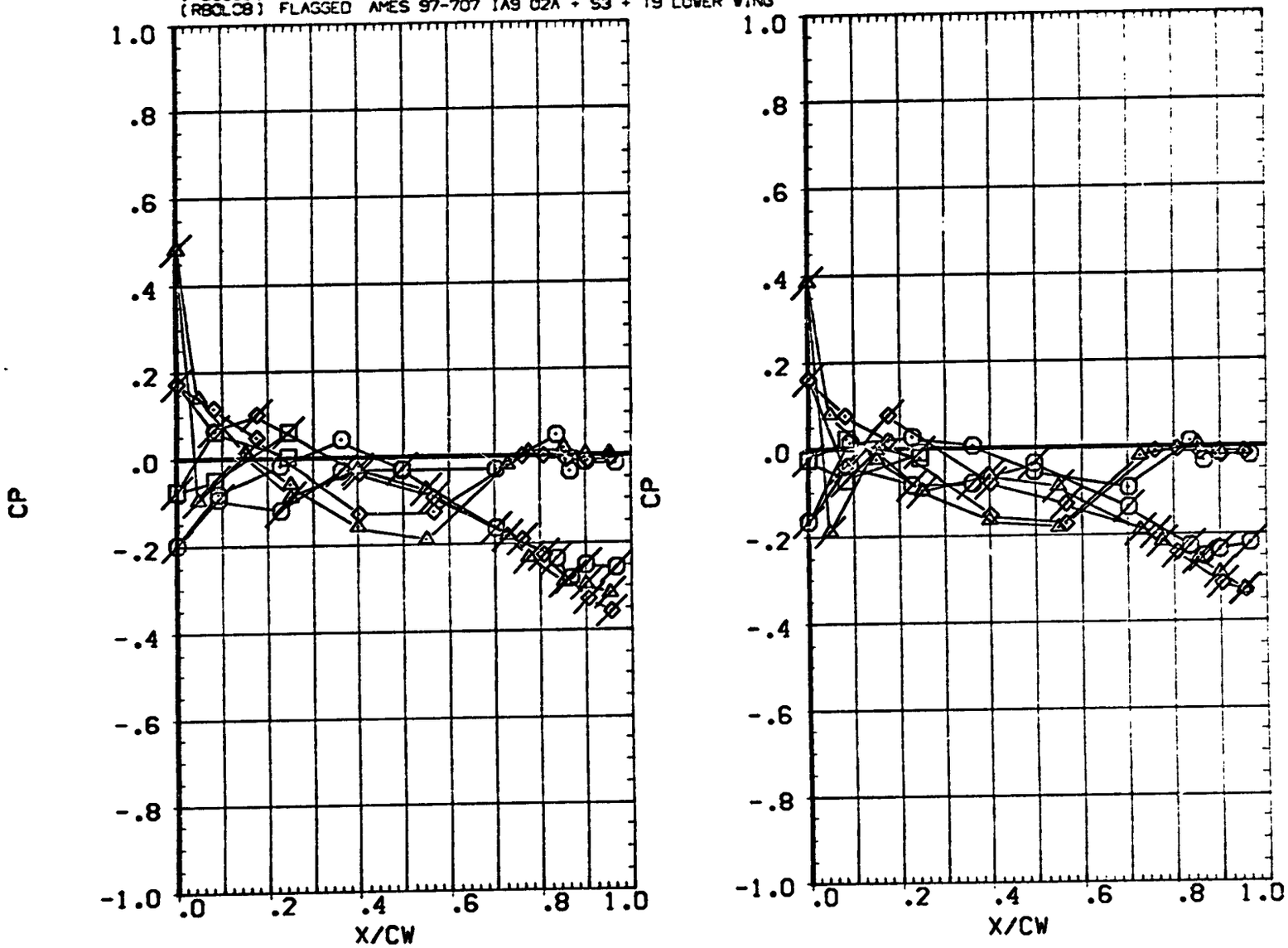
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	BETAT	MACH
○	.299	7.050	1.555
□	.364	9.070	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHAT	-4.000	CB3INC	.500
RUDDER	.000	ELEVCN	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCU08)	OPEN	AMES 97-707 IA9 02A + S3 + T9 UPPER WING
(RBCL08)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 LOWER WING



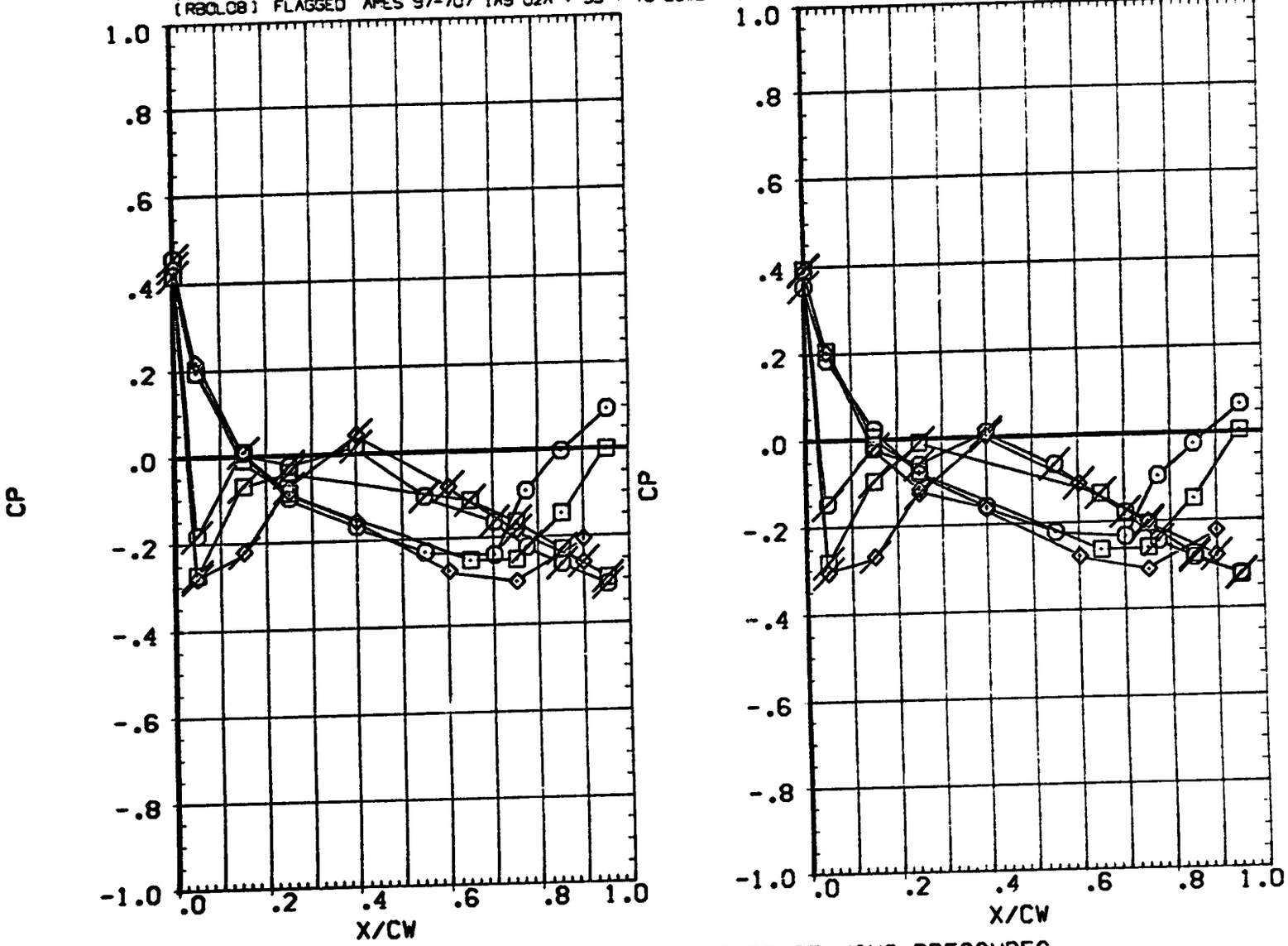
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES.

SYMBOL	Y/BV	BETAT	MACH
○	.673	7.050	1.555
□	.780	9.070	
◇	.887		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDDER	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBOL08) OPEN AMES 97-707 1A9 02A + S3 + T9 UPPER WING
(RBOL08) FLAGGED AMES 97-707 1A9 02A + S3 + T9 LOWER WING



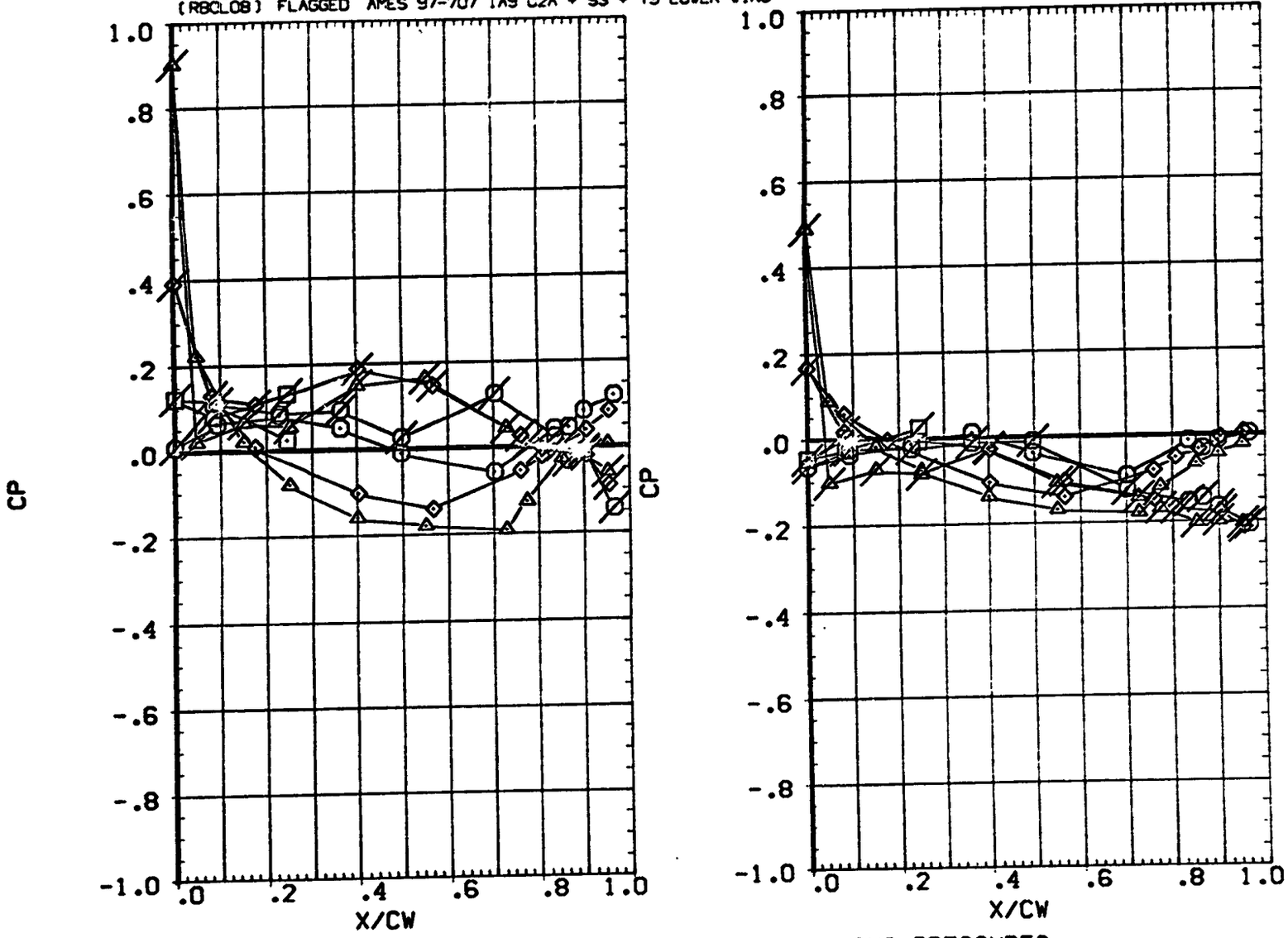
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	BETAT	MACH
○	.299	-6.270	2.000
□	.364	3.920	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOUOB)	OPEN	AMES 97-707 IA9 C2A + S3 + T9 UPPER WING
(RBCLOB)	FLAGGED	AMES 97-707 IA9 C2A + S3 + T9 LOWER WING



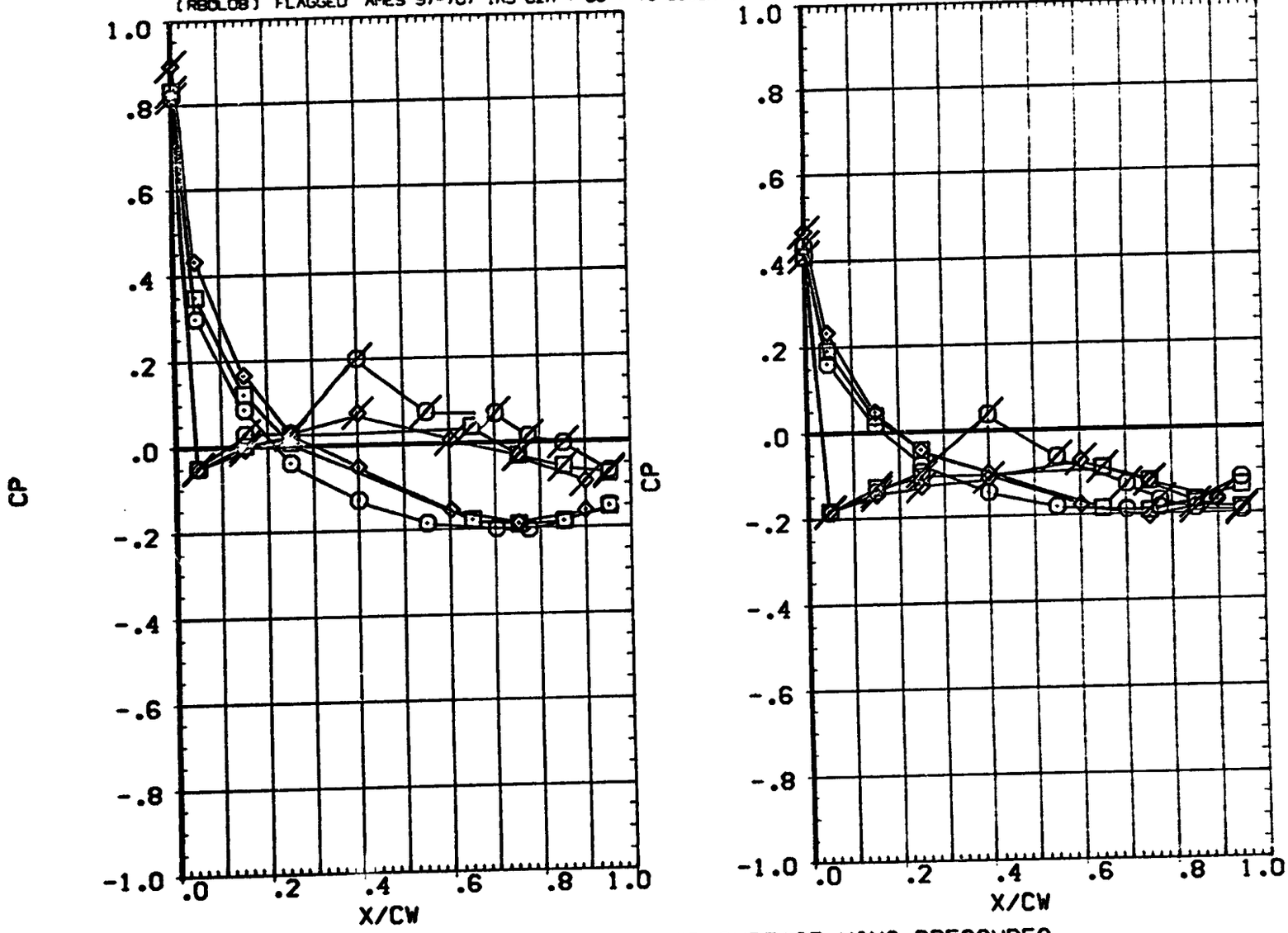
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.673	-6.270	2.000
□	.780	3.920	
◇	.887		

PARAMETRIC VALUES

ALPHAT	-4.000	DRBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOJ08)	OPEN	AMES 97-707 1A9 02A + S3 + T9 UPPER WING
(RBOL08)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 LOWER WING



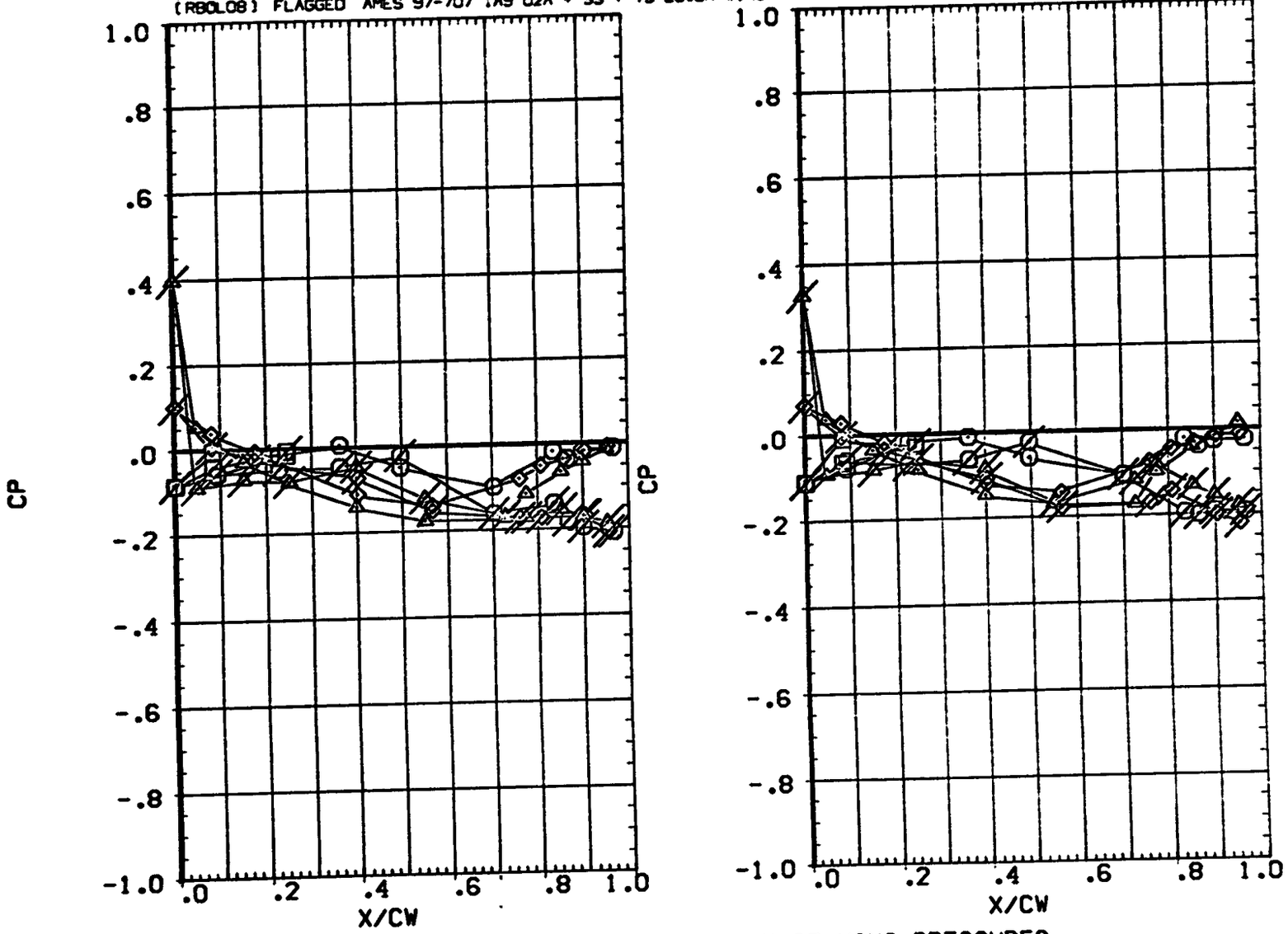
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.299	5.960	2.000
□	.364	8.010	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBCU08) OPEN AMES 97-707 1A9 02A + S3 + T9 UPPER WING
(RBCL08) FLAGGED AMES 97-707 1A9 02A + S3 + T9 LOWER WING



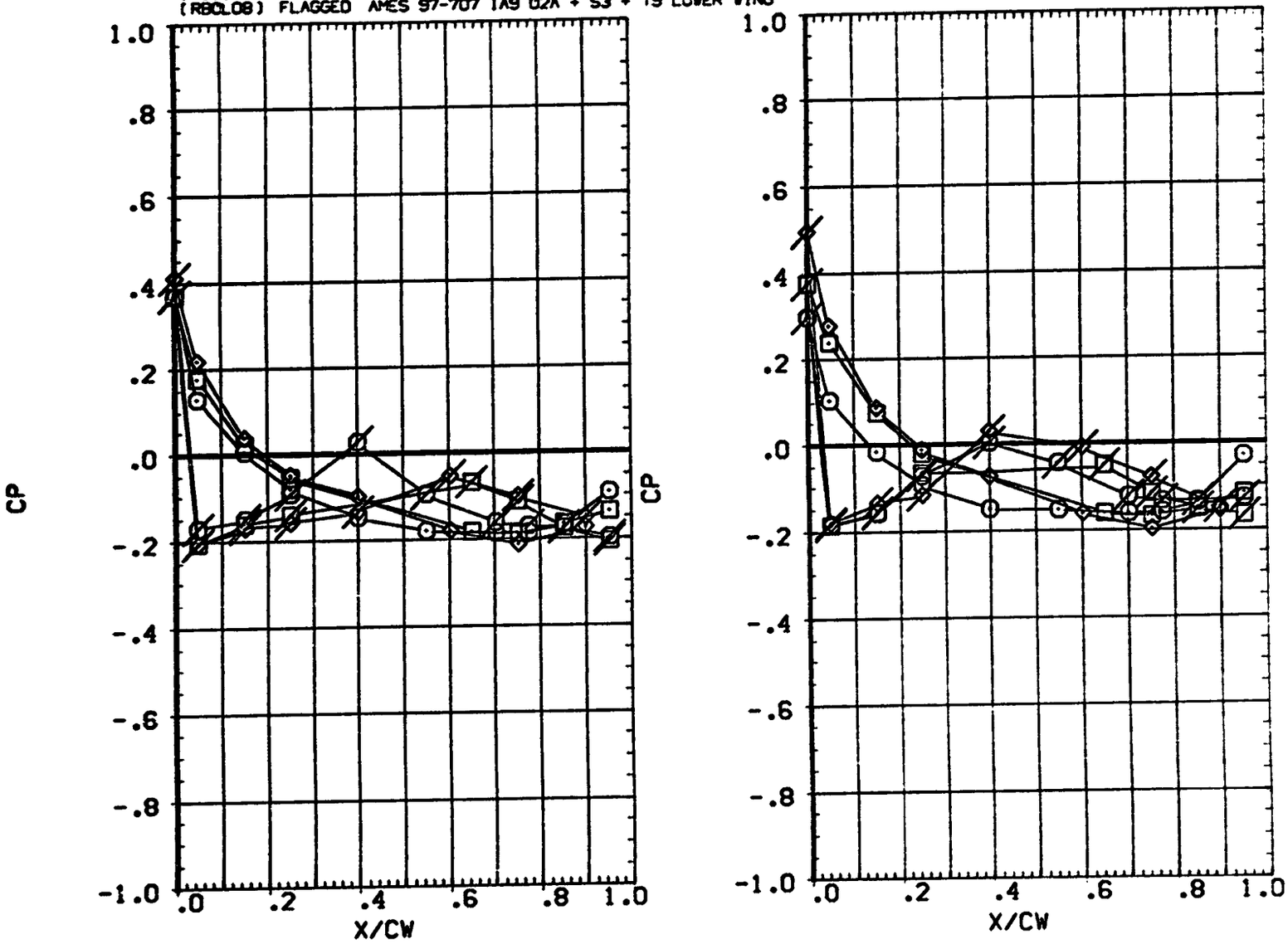
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	BETAT	MACH
○	.673	5.960	2.000
□	.780	8.010	
◇	.887		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBDLOB)	OPEN	AMES 97-707 IA9 02A + S3 + T9 UPPER WING
(RBDLOB)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 LOWER WING



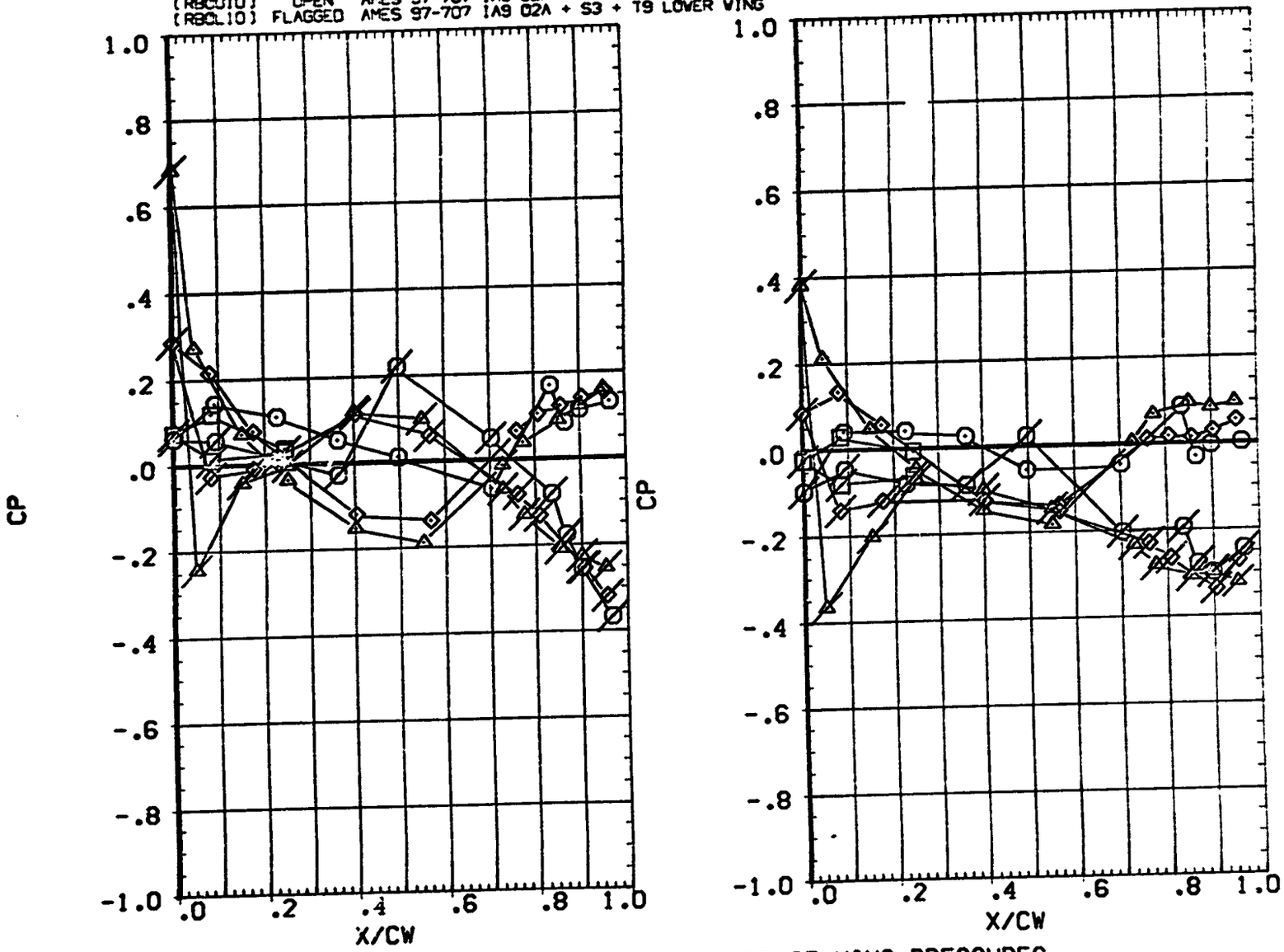
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.299	-6.210	1.555
□	.364	3.650	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVCN	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCU10)	OPEN	AMES 97-707 1A9 D2A + S3 + T9 UPPER WING
(RBCL10)	FLAGGED	AMES 97-707 1A9 D2A + S3 + T9 LOWER WING



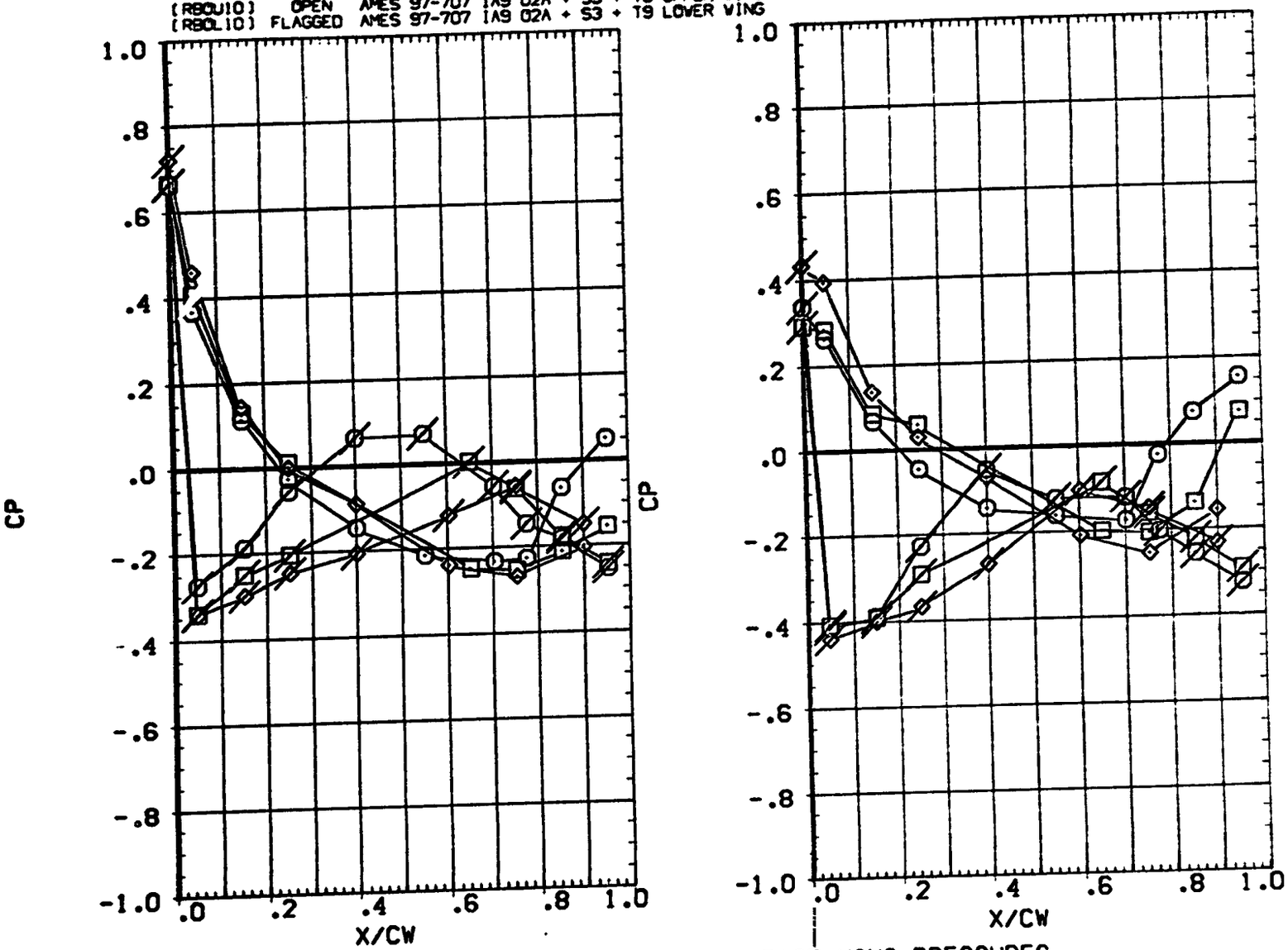
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	BETAT	MACH
○	.673	-6.210	1.555
□	.780	3.650	
◇	.867		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOU10)	OPEN	AMES 97-707 IA9 02A + S3 + T9 UPPER WING
(RBOL10)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 LOWER WING



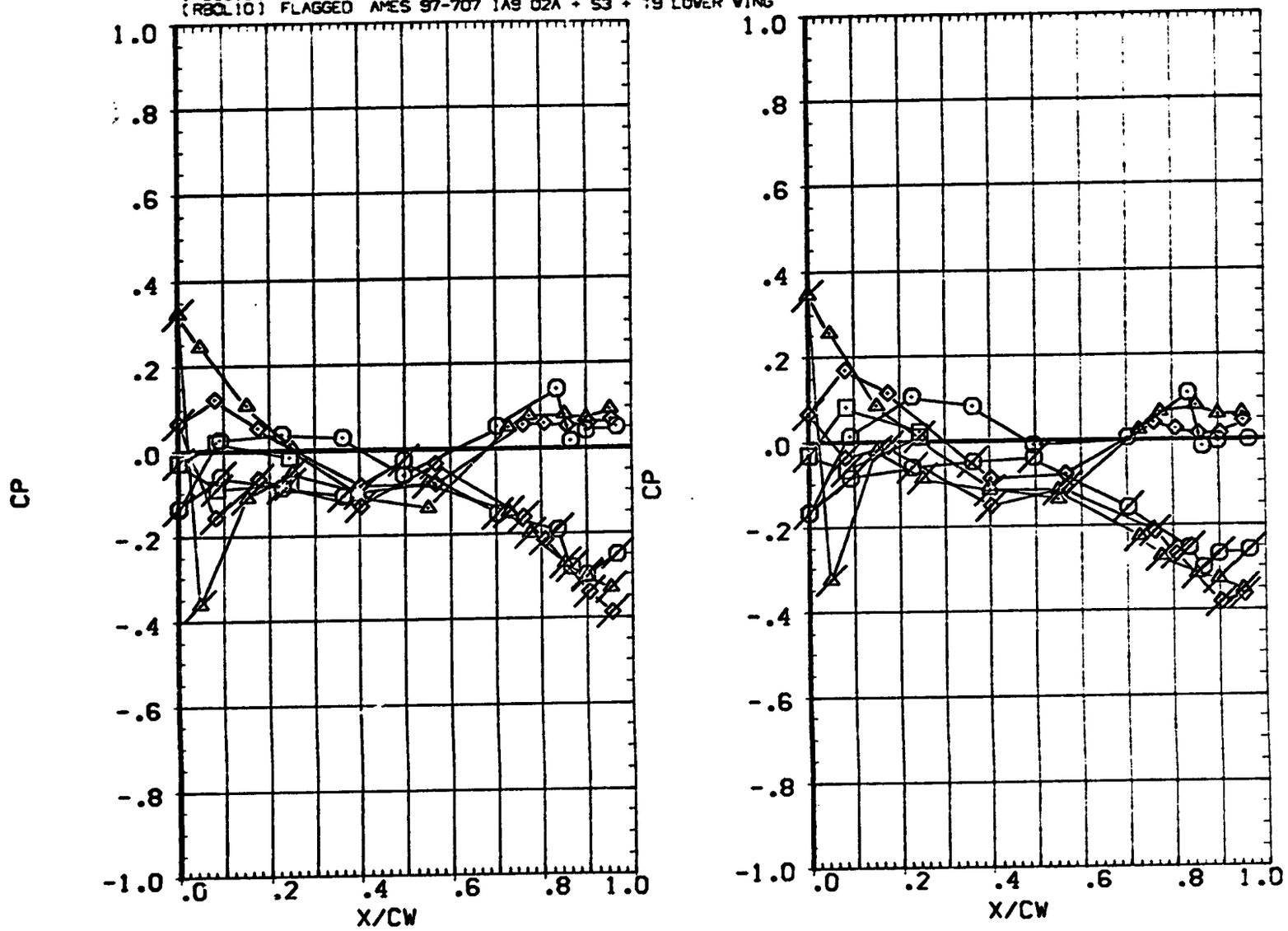
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	BETAT	MACH
○	.299	5.710	1.555
□	.364	7.770	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHAT	-8.000	SREINC	.500
RUDDER	.000	ELEVSN	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOU10)	OPEN	AMES 97-707 1A9 02A + S3 + T9 UPPER WING
(RBOL10)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 LOWER WING



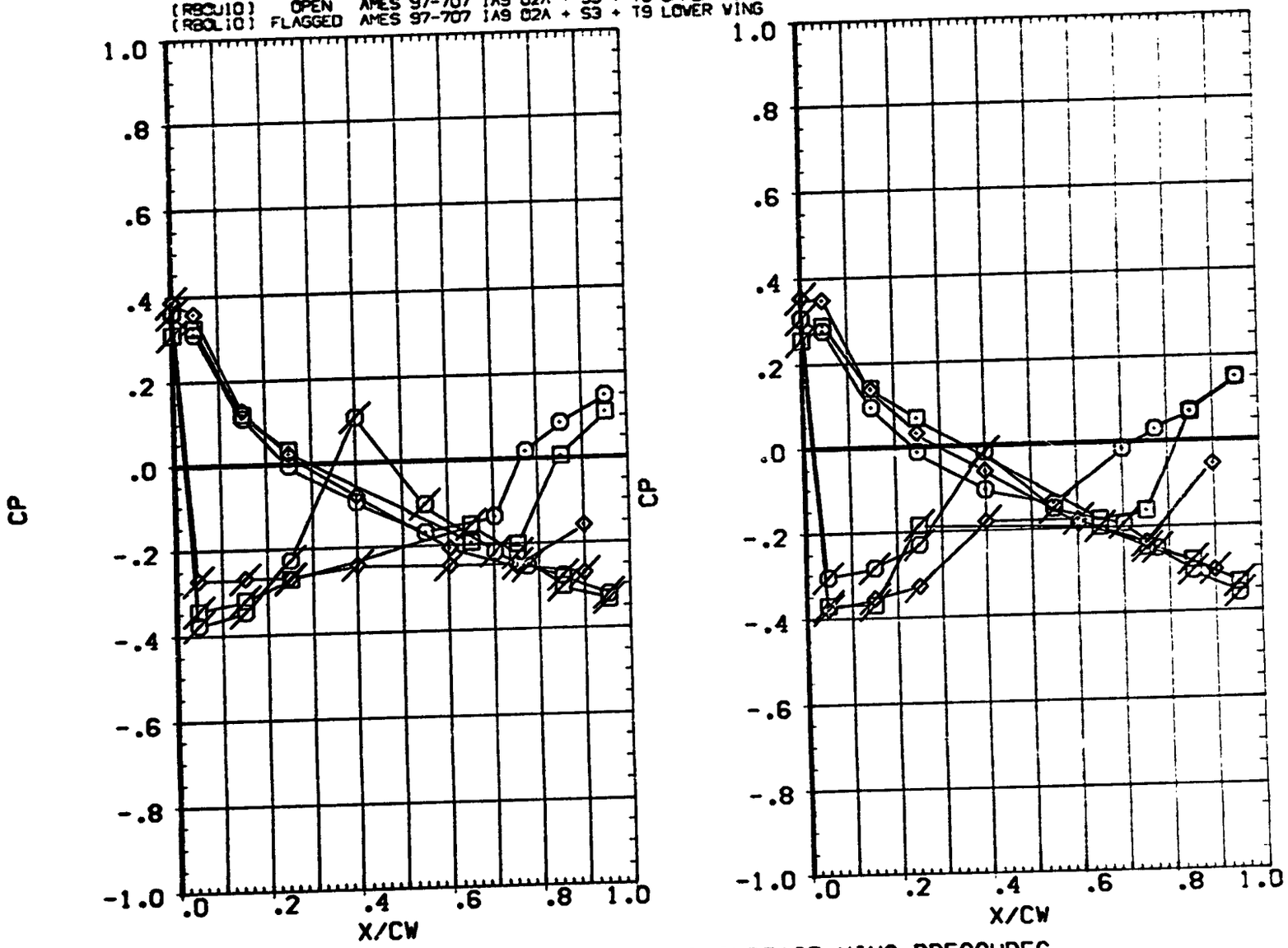
SURFACE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	BETAT	MACH
○	.673	5.710	1.555
□	.780	7.770	
◇	.887		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCU10)	OPEN	AMES 97-707 1A9 02A + S3 + T9 UPPER WING
(RBCL10)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 LOWER WING



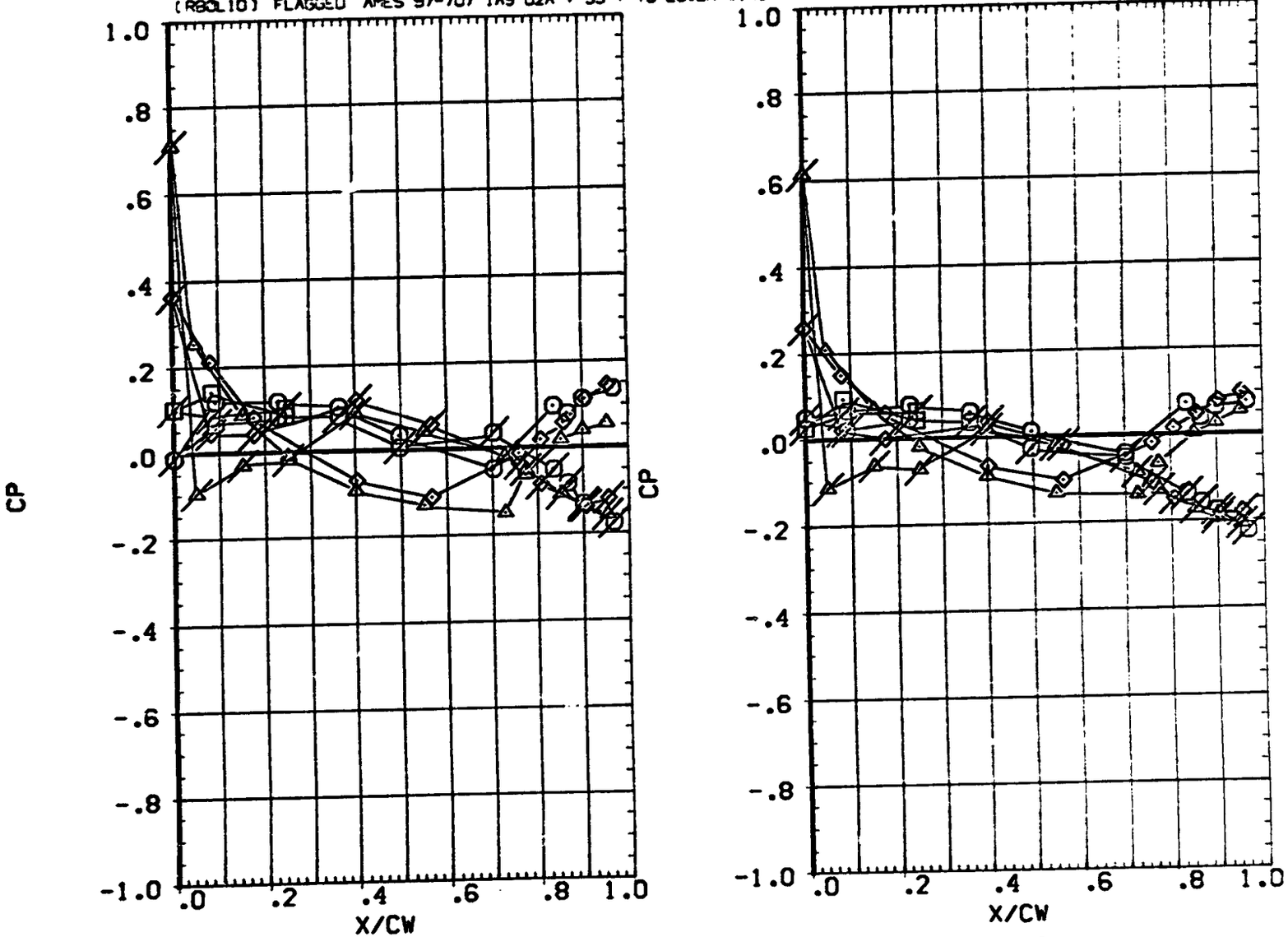
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.299	-4.280	2.000
□	.364	-.170	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHAT	-8.000	DBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOU10)	OPEN	AMES 97-707 1A9 02A + S3 + T9 UPPER WING
(RBOL10)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 LOWER WING



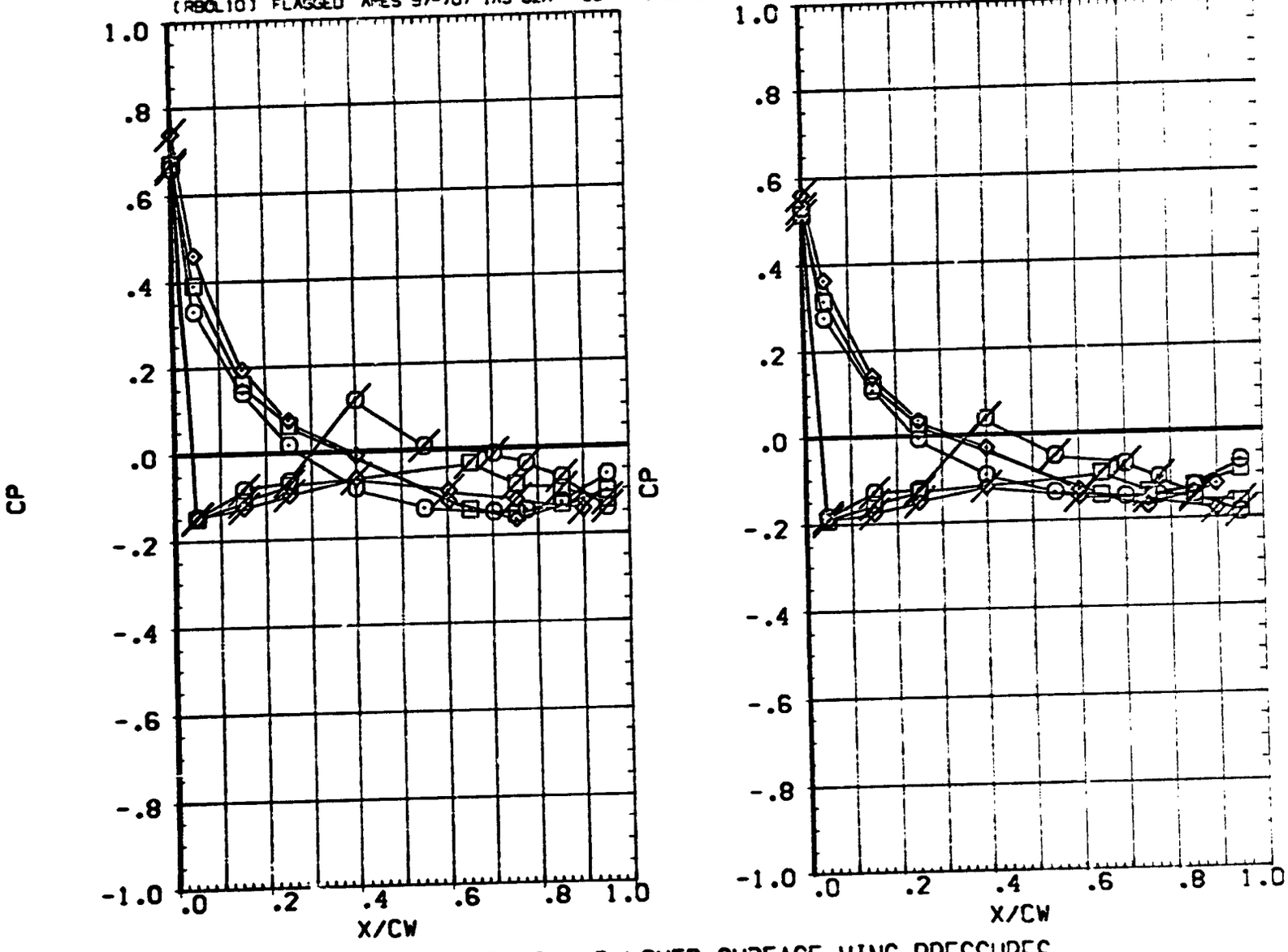
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	BETAT	MACH
○	.673	-4.280	2.000
□	.780	-.170	
◇	.887		

PARAMETRIC VALUES

ALPHAT	-8.000	CABINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOU10)	OPEN	AMES 97-707 1A9 02A + S3 + T9 UPPER WING
(RBOL10)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 LOWER WING



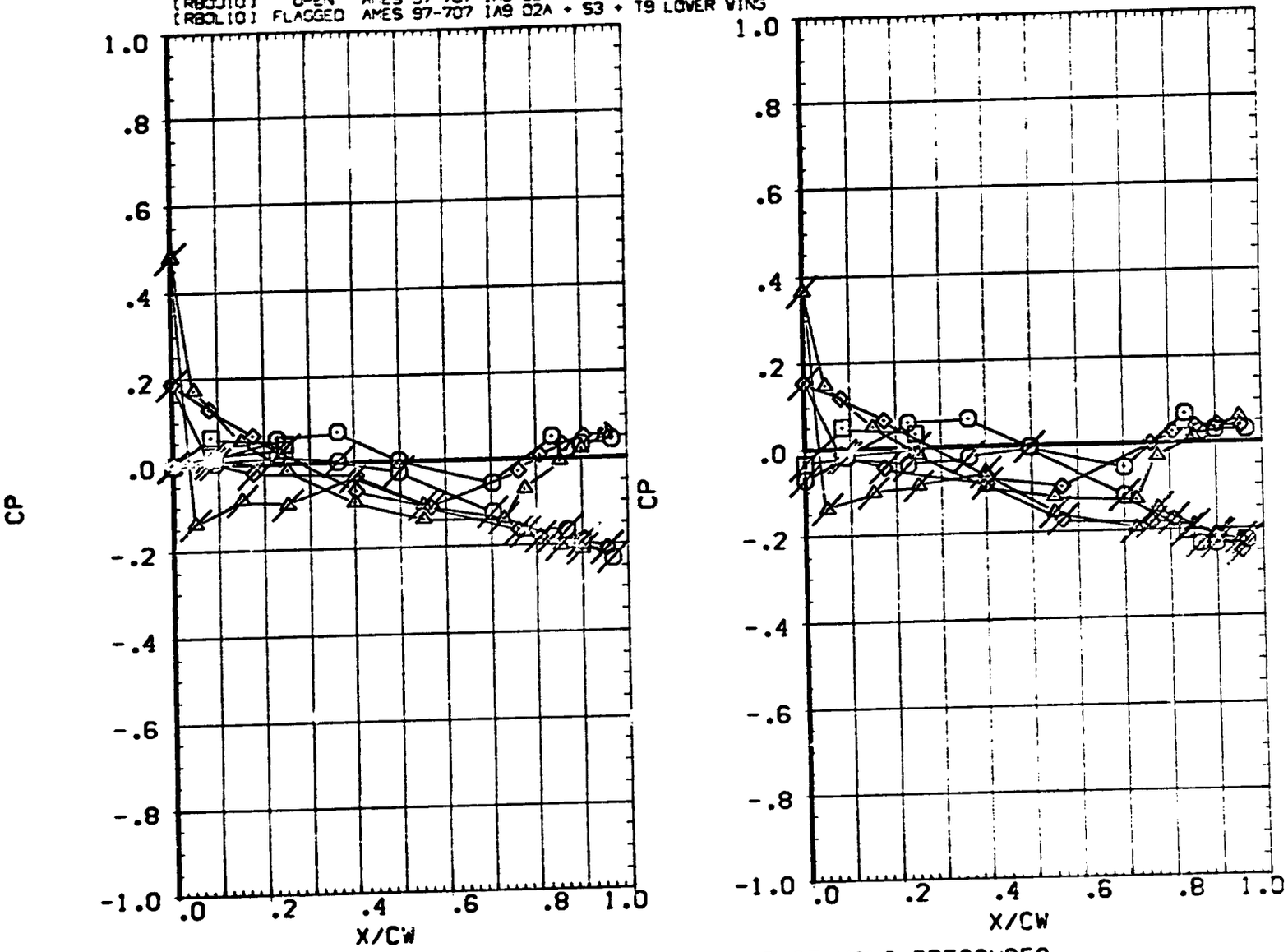
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/Bw	BETAT	MACH
○ [1]	.299	3.940	2.000
◇ [1]	.364	8.050	
△	.427		
	.534		

PARAMETRIC VALUES

ALPHAT	-8.000	DRBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[RBOU10]	OPEN	AMES 97-707 1A9 02A + S3 + T9 UPPER WING
[RBOL10]	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 LOWER WING



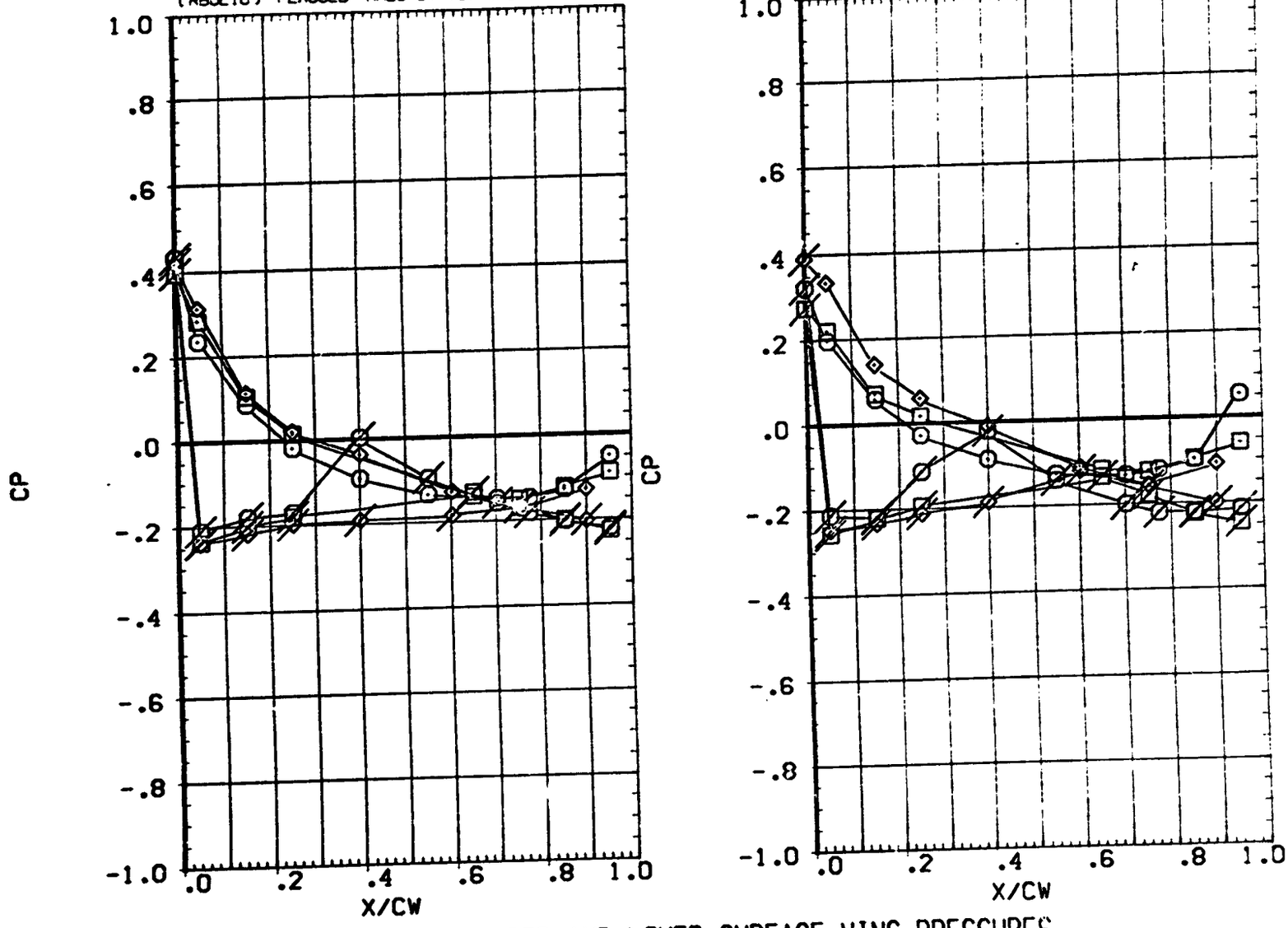
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.673	3.940	2.000
□	.780	8.050	
◇	.887		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCU10)	OPEN	AMES 97-707 IA9 02A + S3 + T9 UPPER WING
(RBCL10)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 LOWER WING



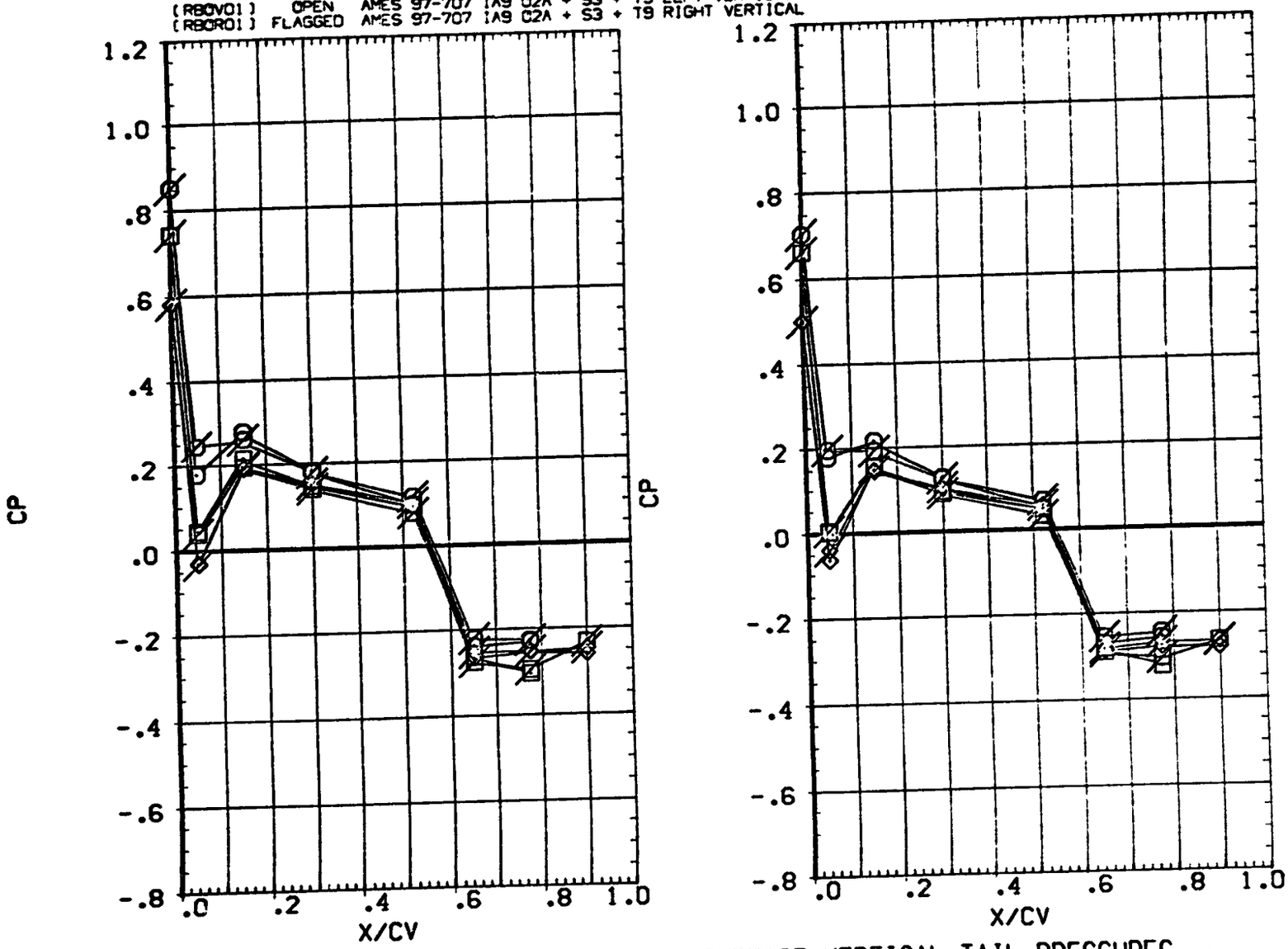
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Z/BV	ALPHAT	MACH
○	.158	-4.250	1.555
□	.316	-.120	
◇	.600		

PARAMETRIC VALUES

BETAT	.000	CRBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV01)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR01)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



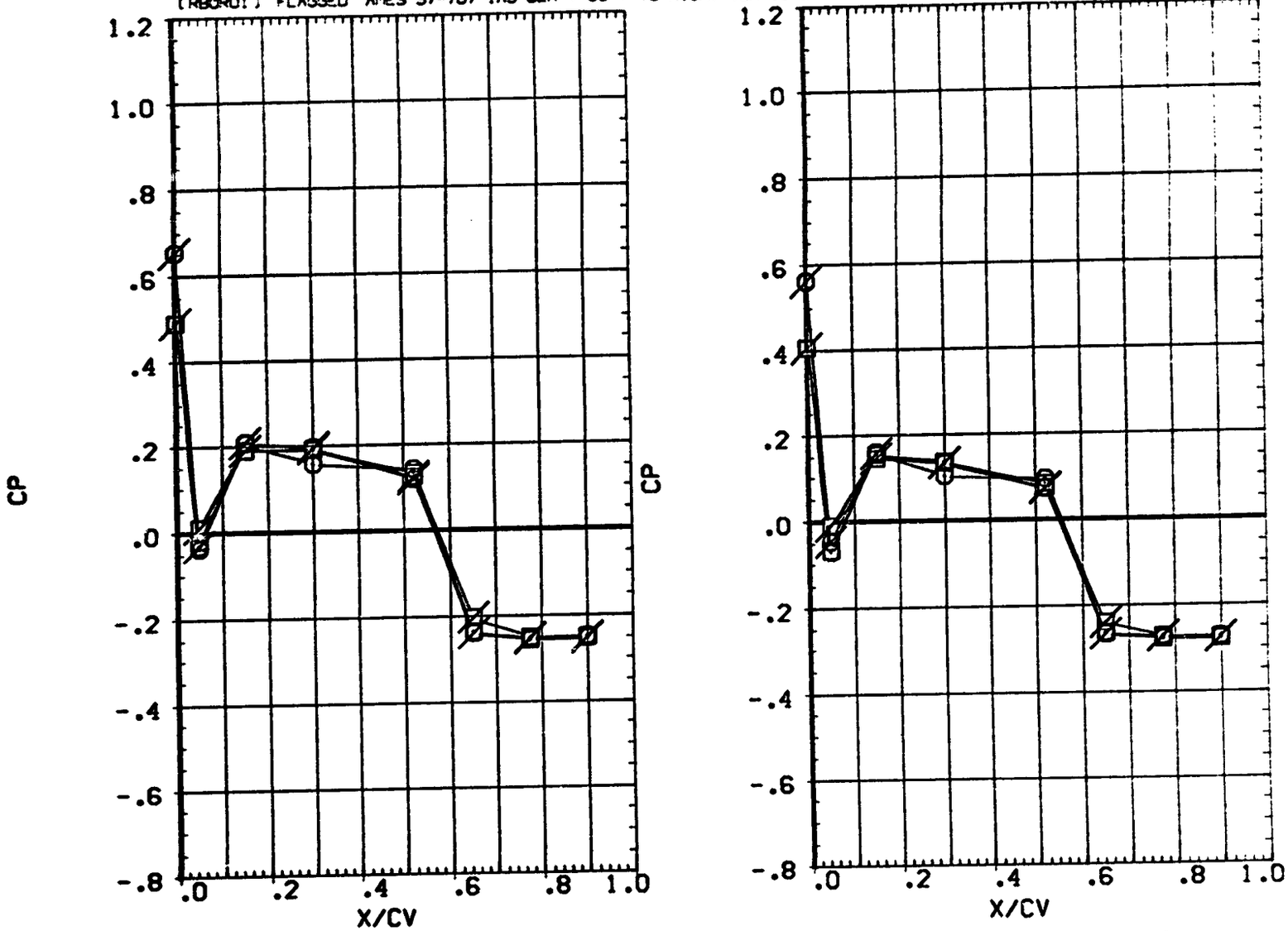
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	ALPHAT	MACH
○	.840	-4 250	1.555
□	.925	-.120	

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOVO1)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBORO1)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



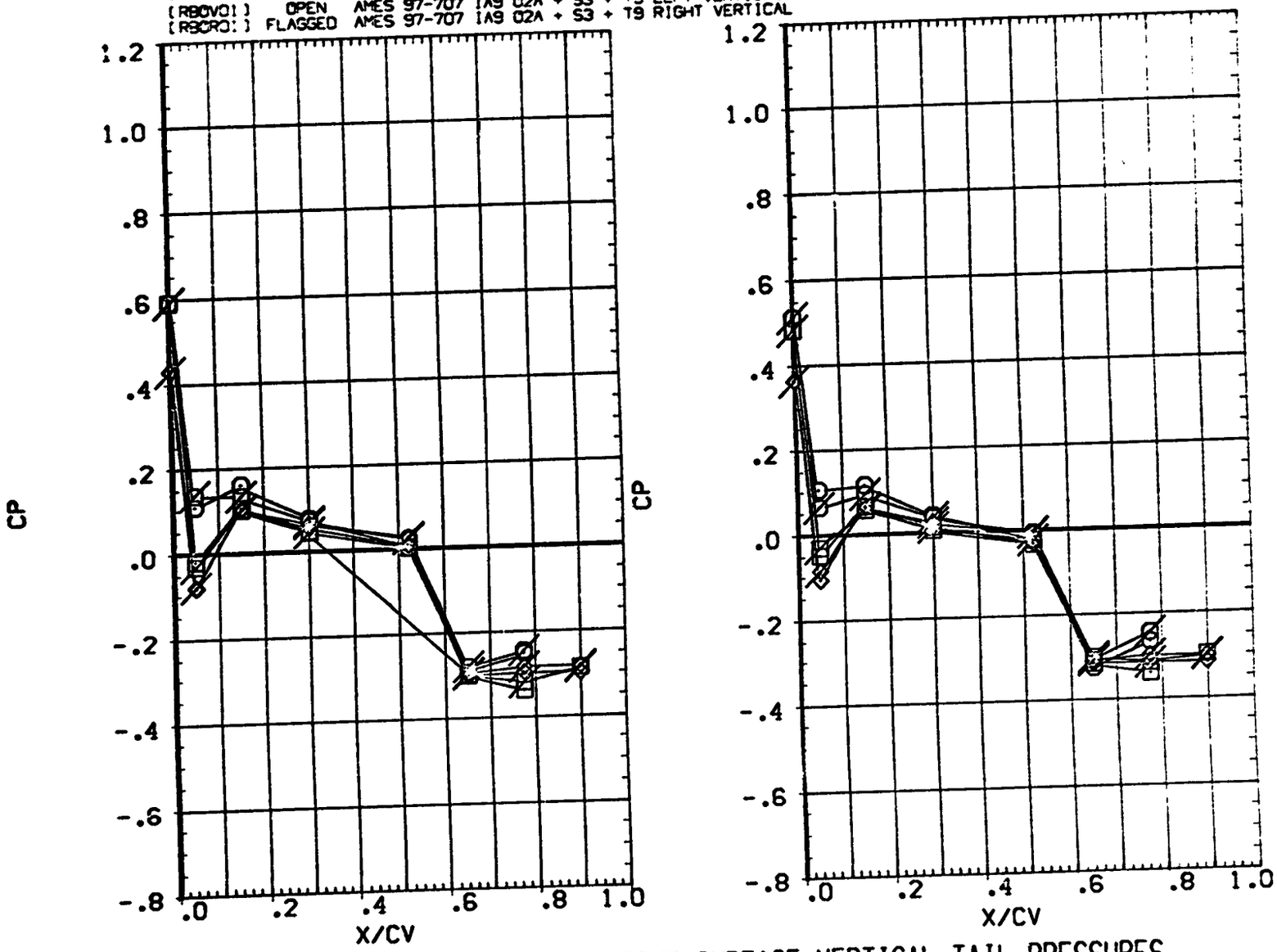
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	ALPHAT	MACH
○	.158	4.010	1.555
□	.316	8.130	
◇	.600		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVCN	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOVO:)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBORO:)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



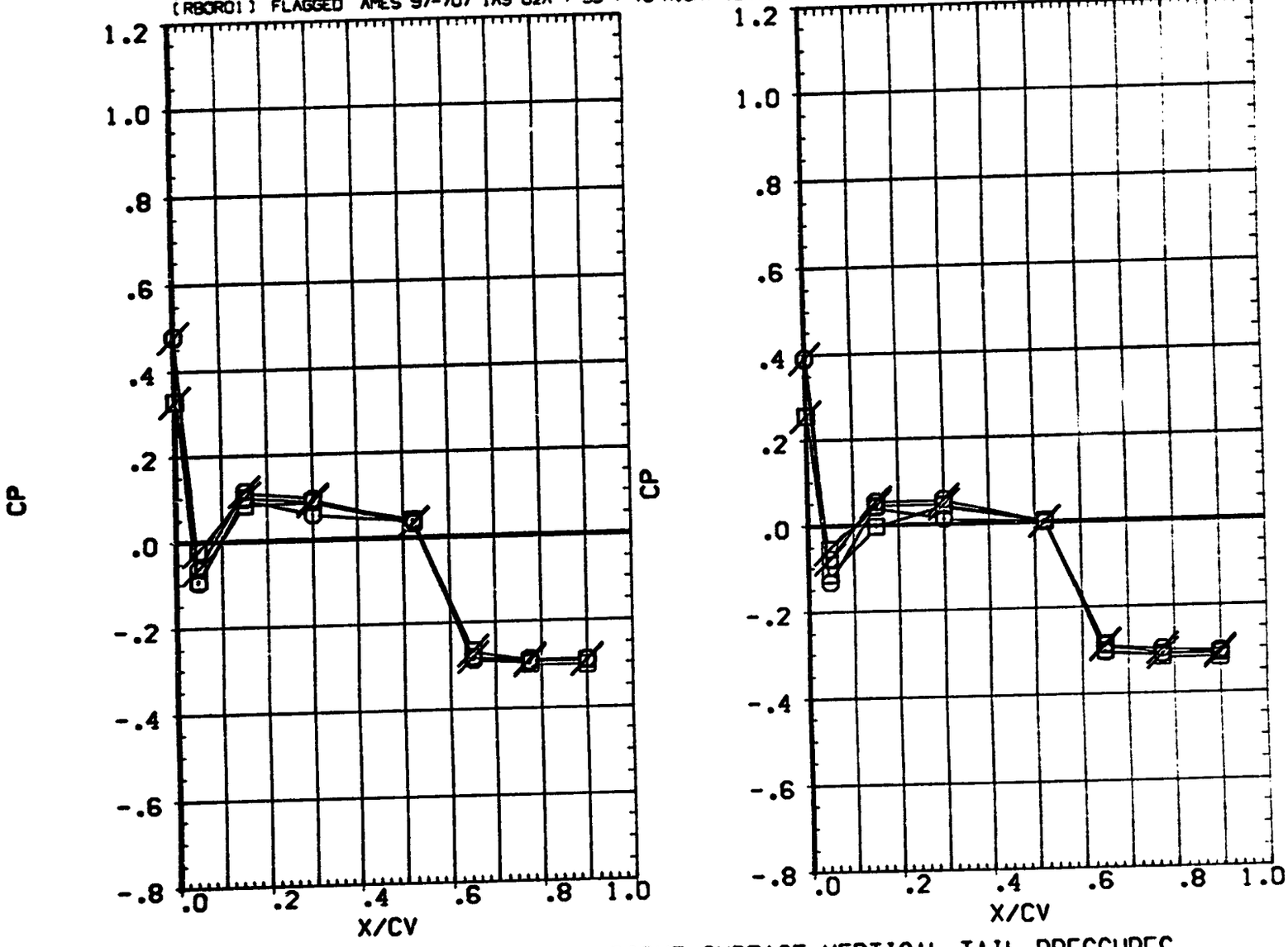
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	ALPHAT	MACH
○	.840	4.010	1.555
□	.925	8.130	

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV01)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR01)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



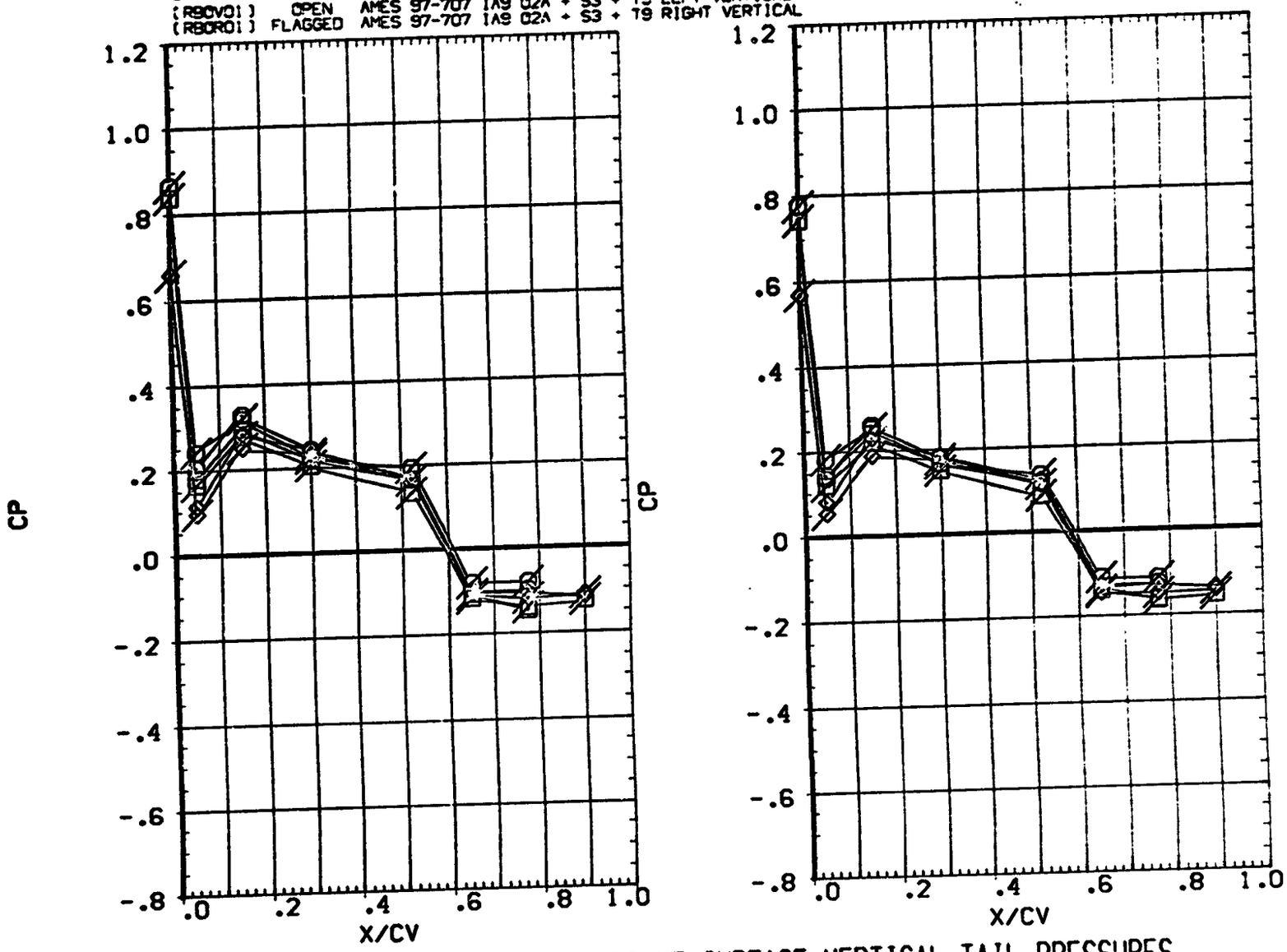
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	ALPHAT	MACH
○	.158	-4.250	2.000
□	.316	-.160	
◇	.600		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVCN	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCVO1)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBCRO1)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



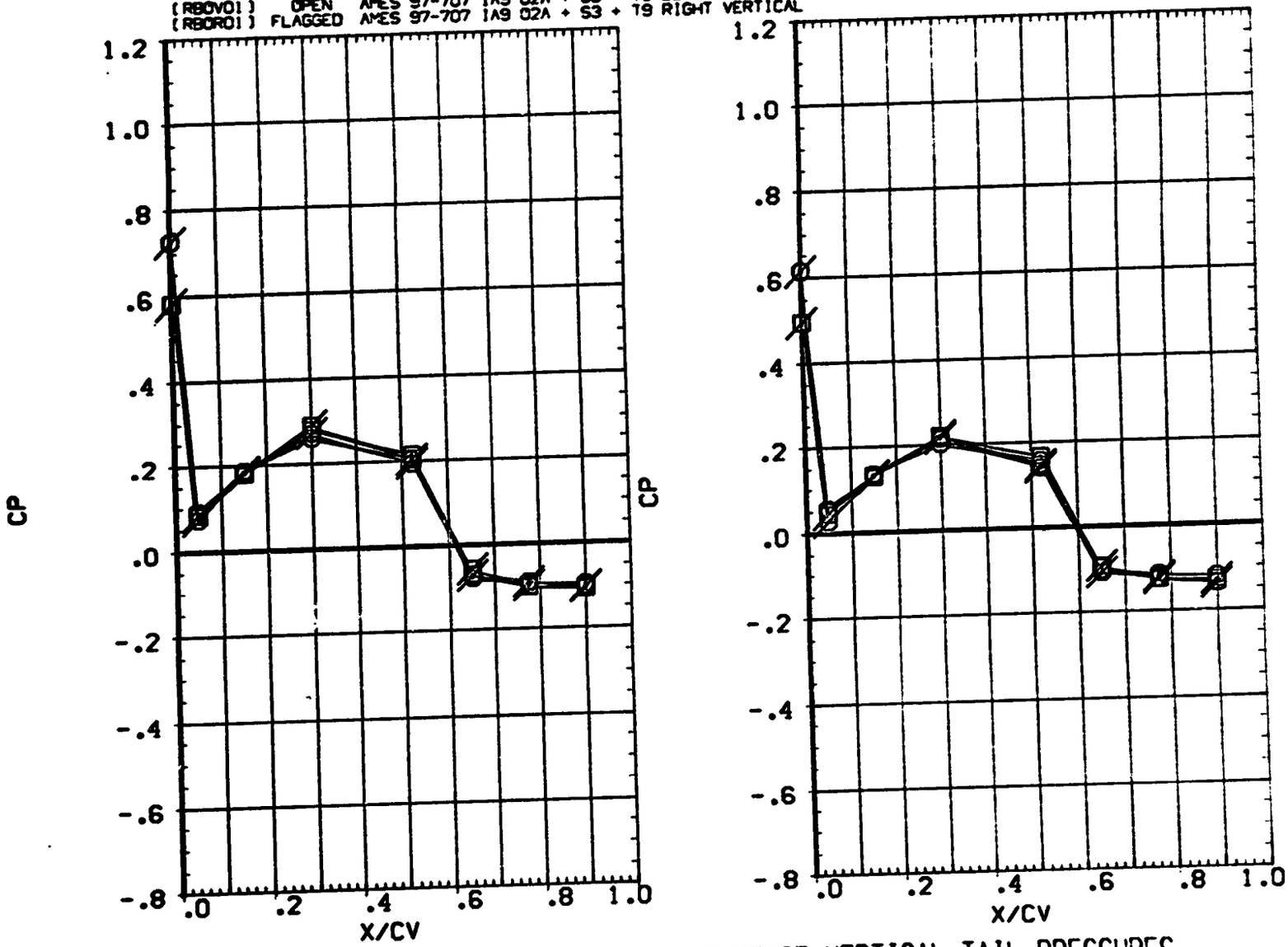
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	ALPHAT	MACH
□	.840	-4.250	2.000
□	.925	-.160	

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOVOI)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBORDI)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



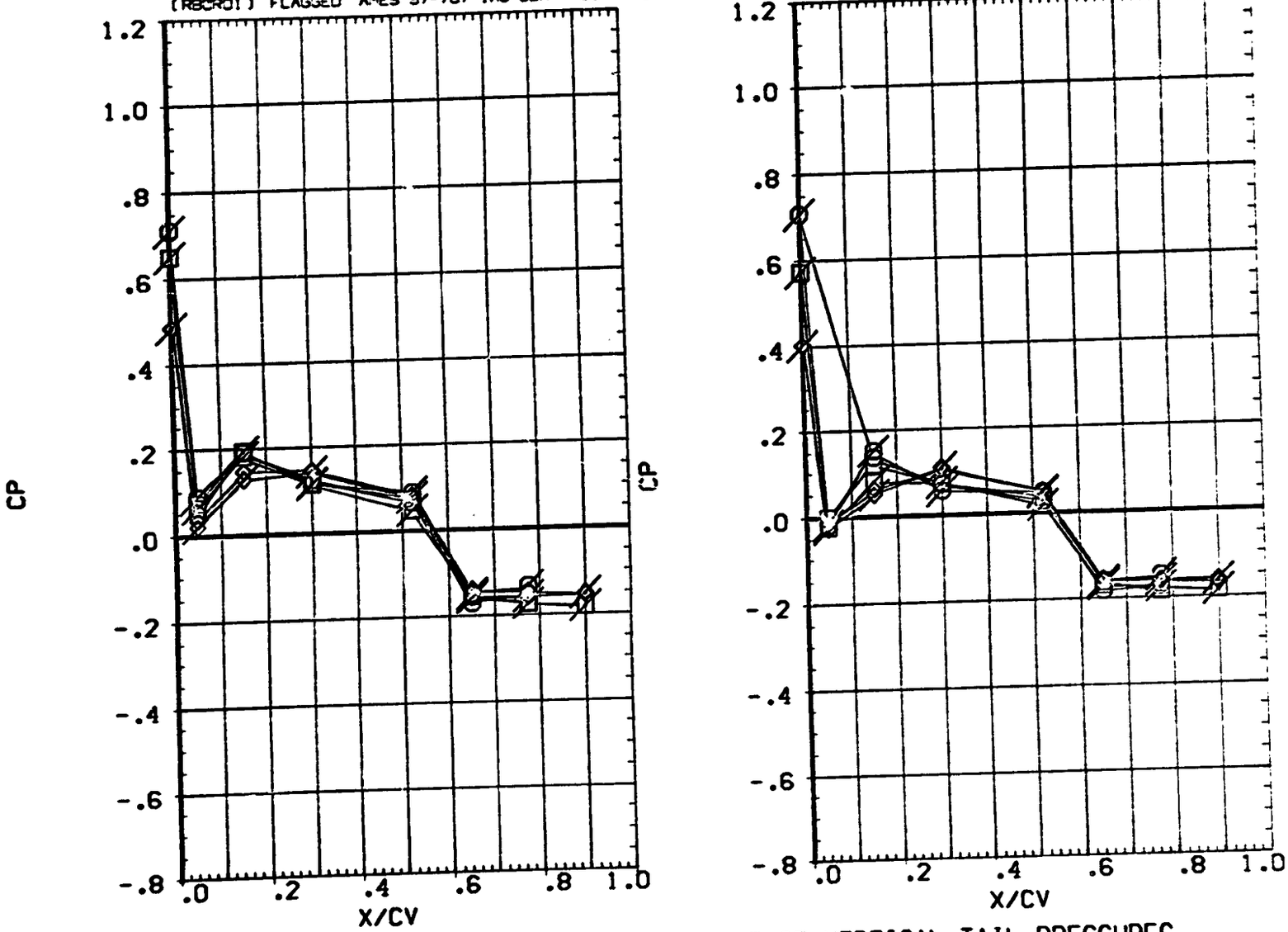
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	ALPHAT	MACH
○	.158	3.930	2.000
□	.316	8.020	
◇	.600		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBOVC1) OPEN AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBCRO1) FLAGGED AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



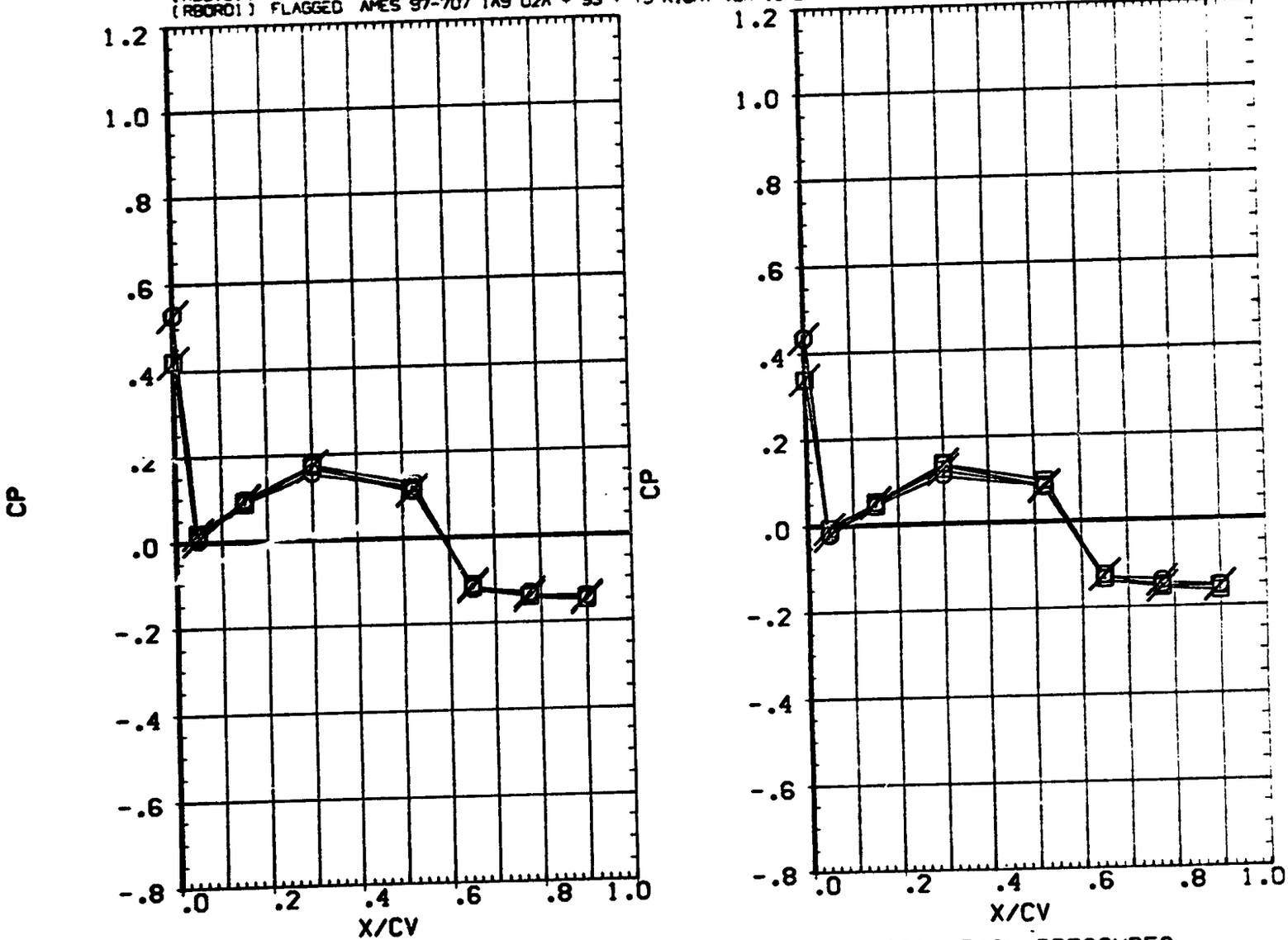
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	ALPHAT	MACH
○	.840	3.930	2.000
□	.925	8.020	

PARAMETRIC VALUES

BETAT	.000	DRGINC	.500
RUDDER	.000	ELEVCN	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCVO1)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBCRO1)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



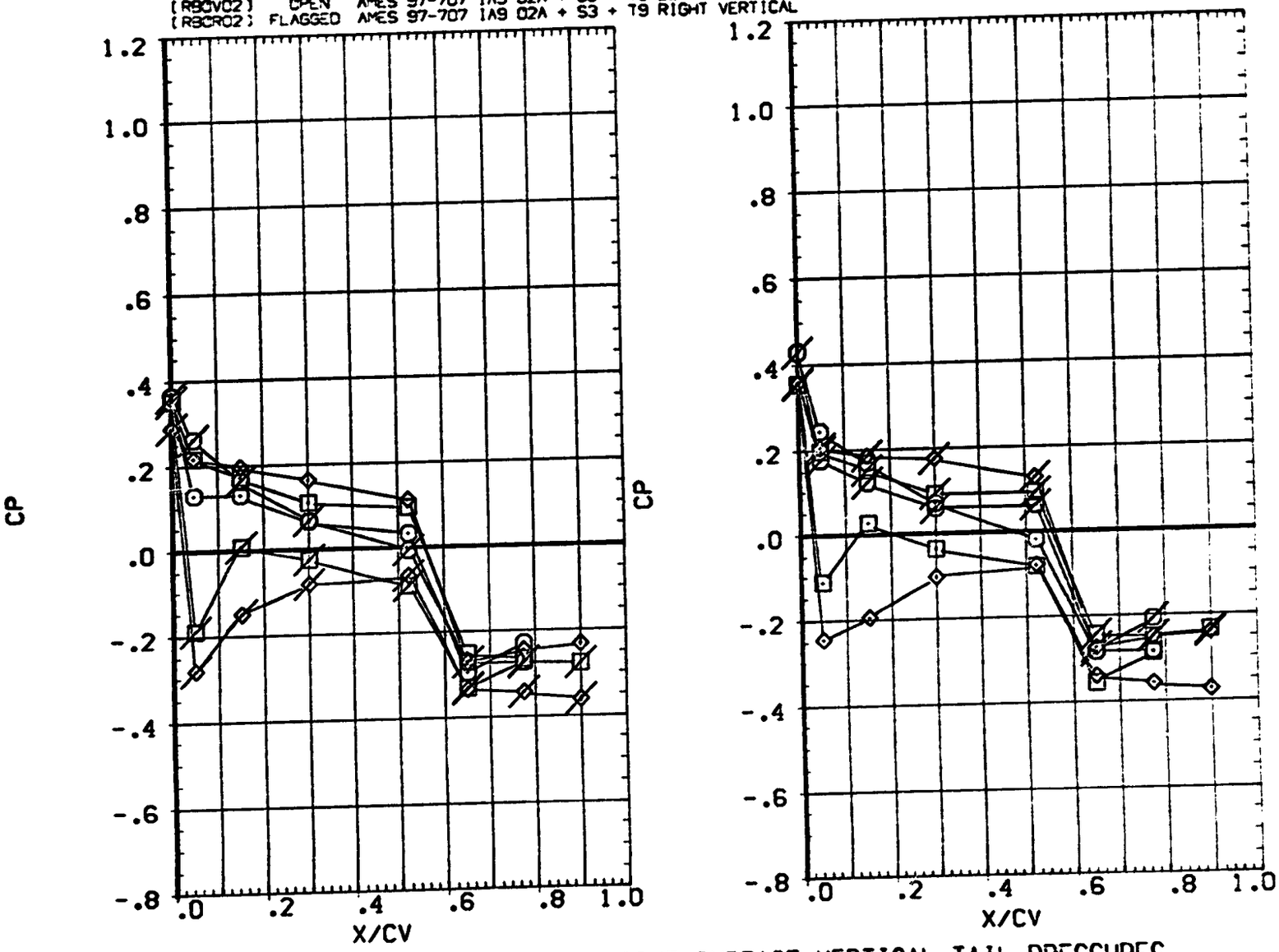
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-5.100	1.555
□	.316	5.110	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV02)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR02)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



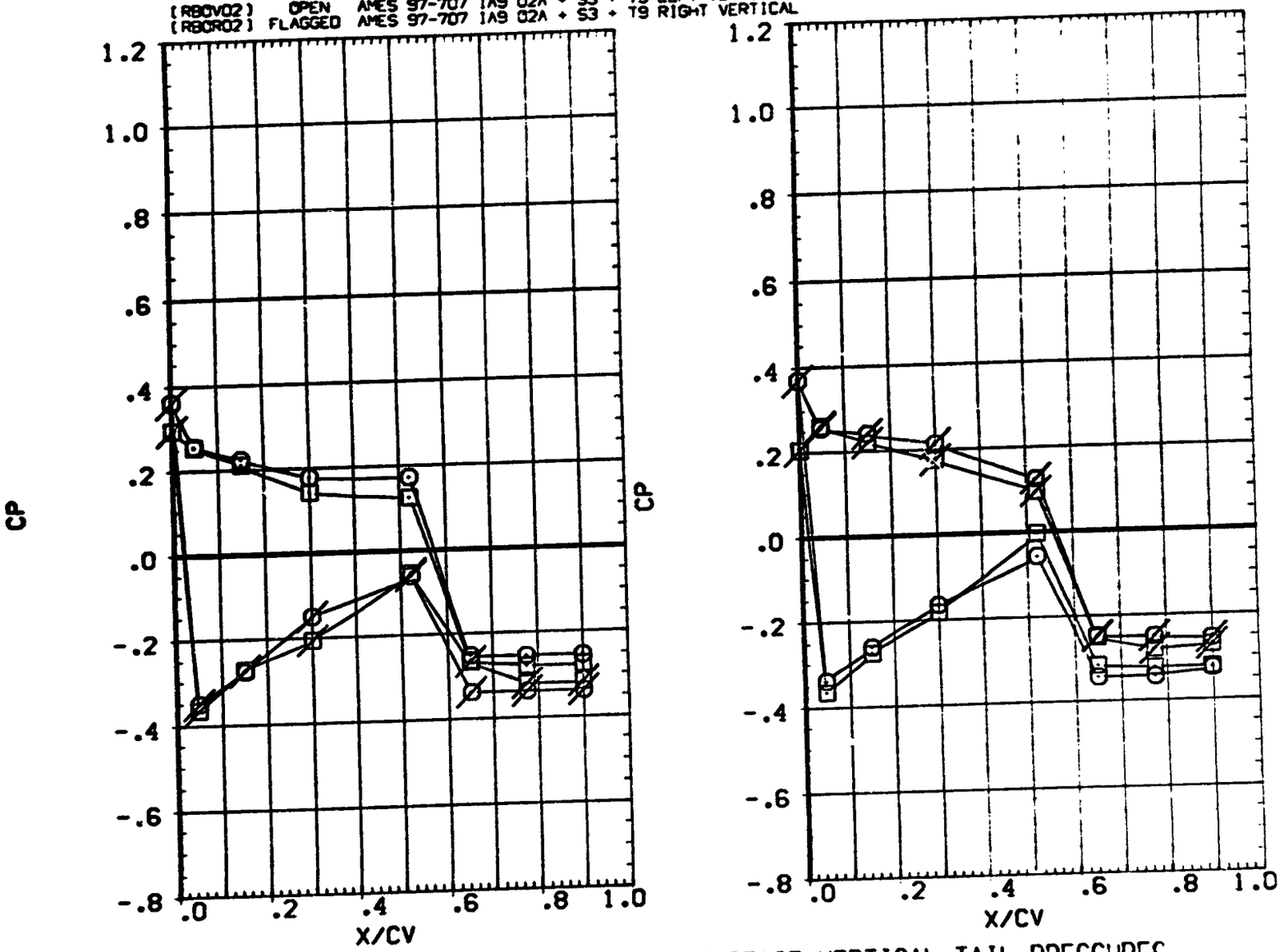
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-5.100	1.555
□	.925	5.110	

PARAMETRIC VALUES

ALPHAT	8.000	DRGINC	.500
R[illegible]	.000	ELEVCN	.000
RUDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBOV02) OPEN AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR02) FLAGGED AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



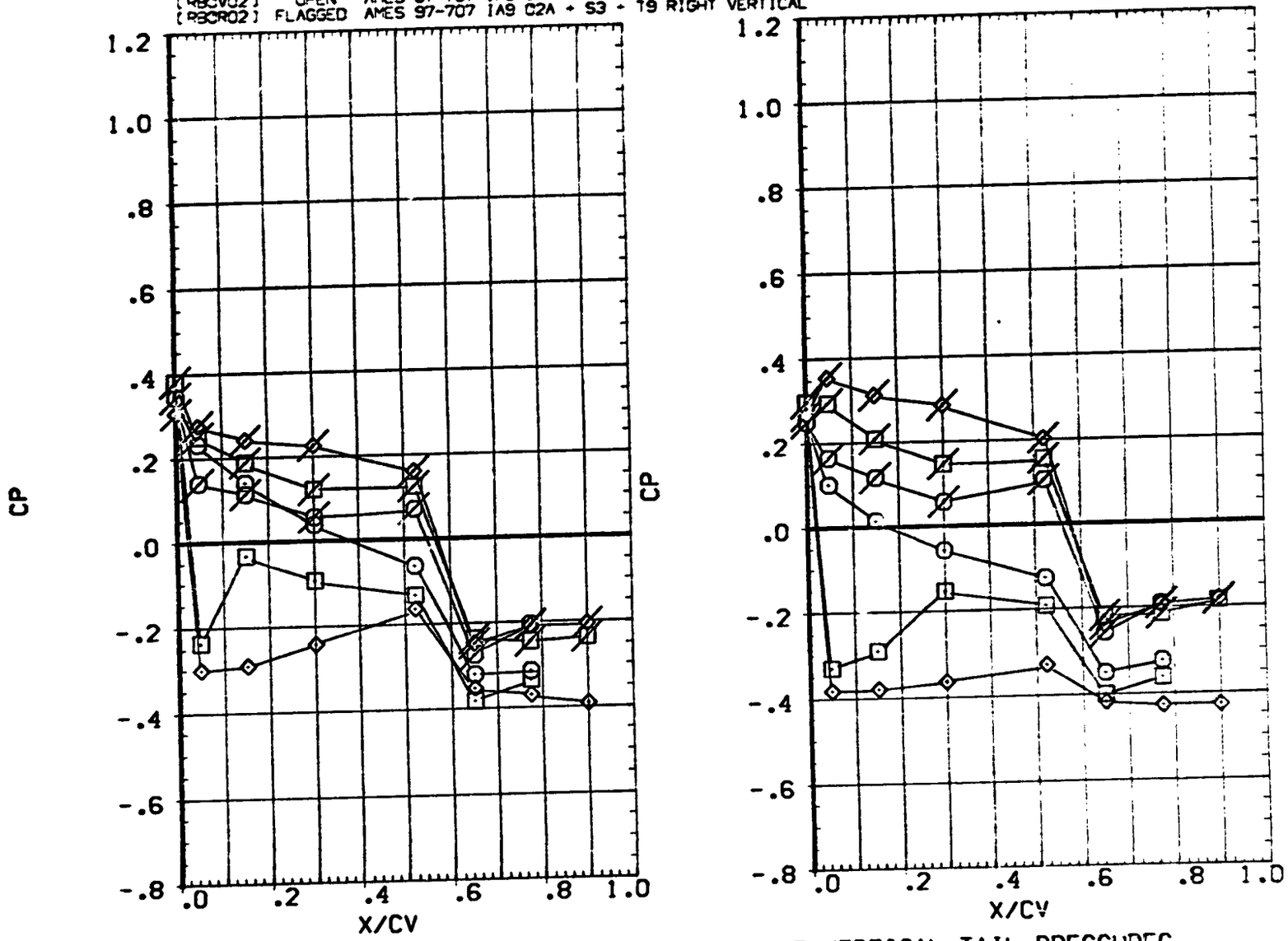
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	7.140	1.555
□	.316	9.190	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	SPEINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCV02)	OPEN	AMES 97-707 IA9 C2A + S3 + T9 LEFT VERTICAL
(RBCR02)	FLAGGED	AMES 97-707 IA9 C2A + S3 + T9 RIGHT VERTICAL



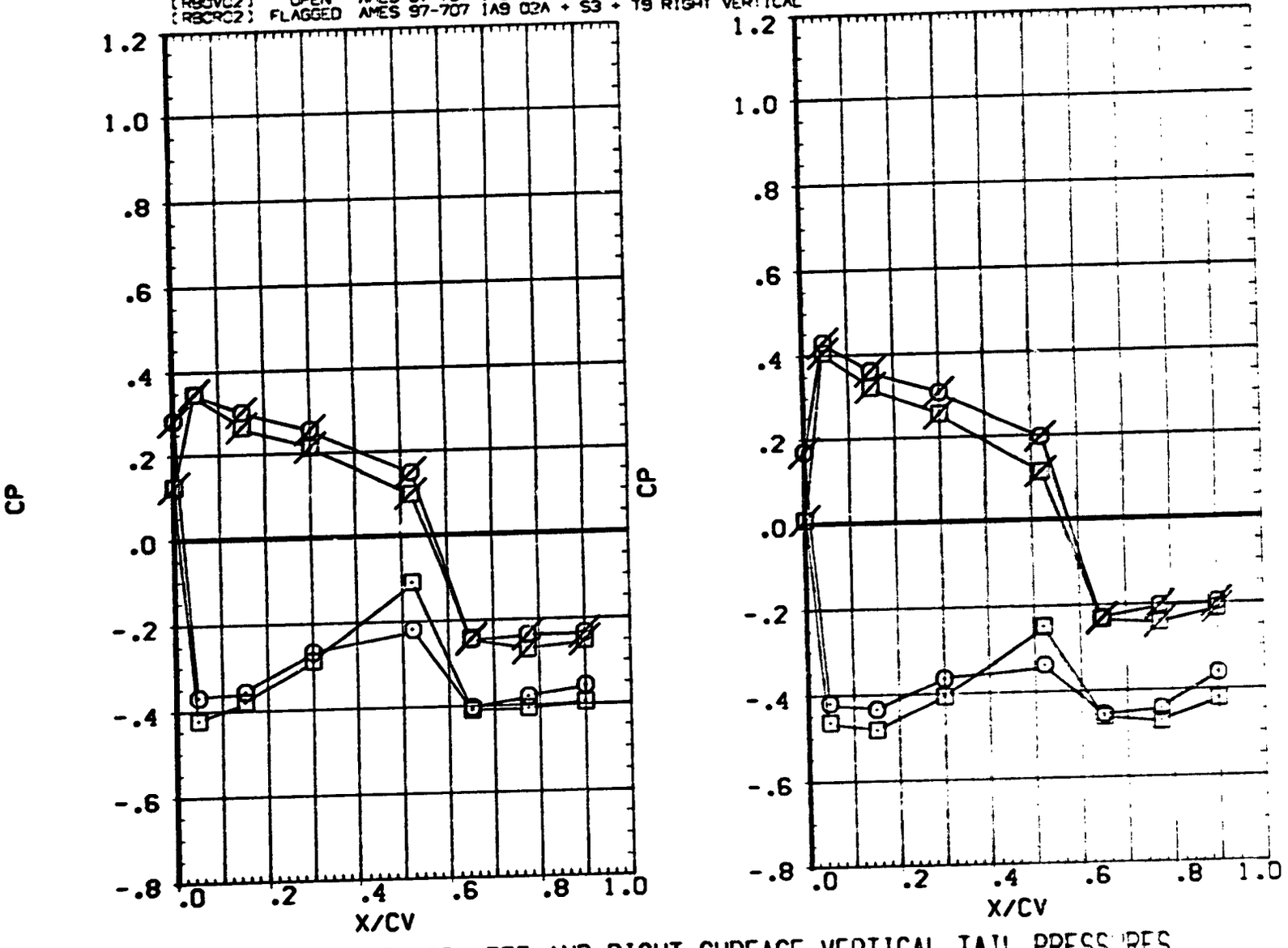
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	7.140	1.555
□	.925	9.190	

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBOVC2) OPEN AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBCRC2) FLAGGED AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



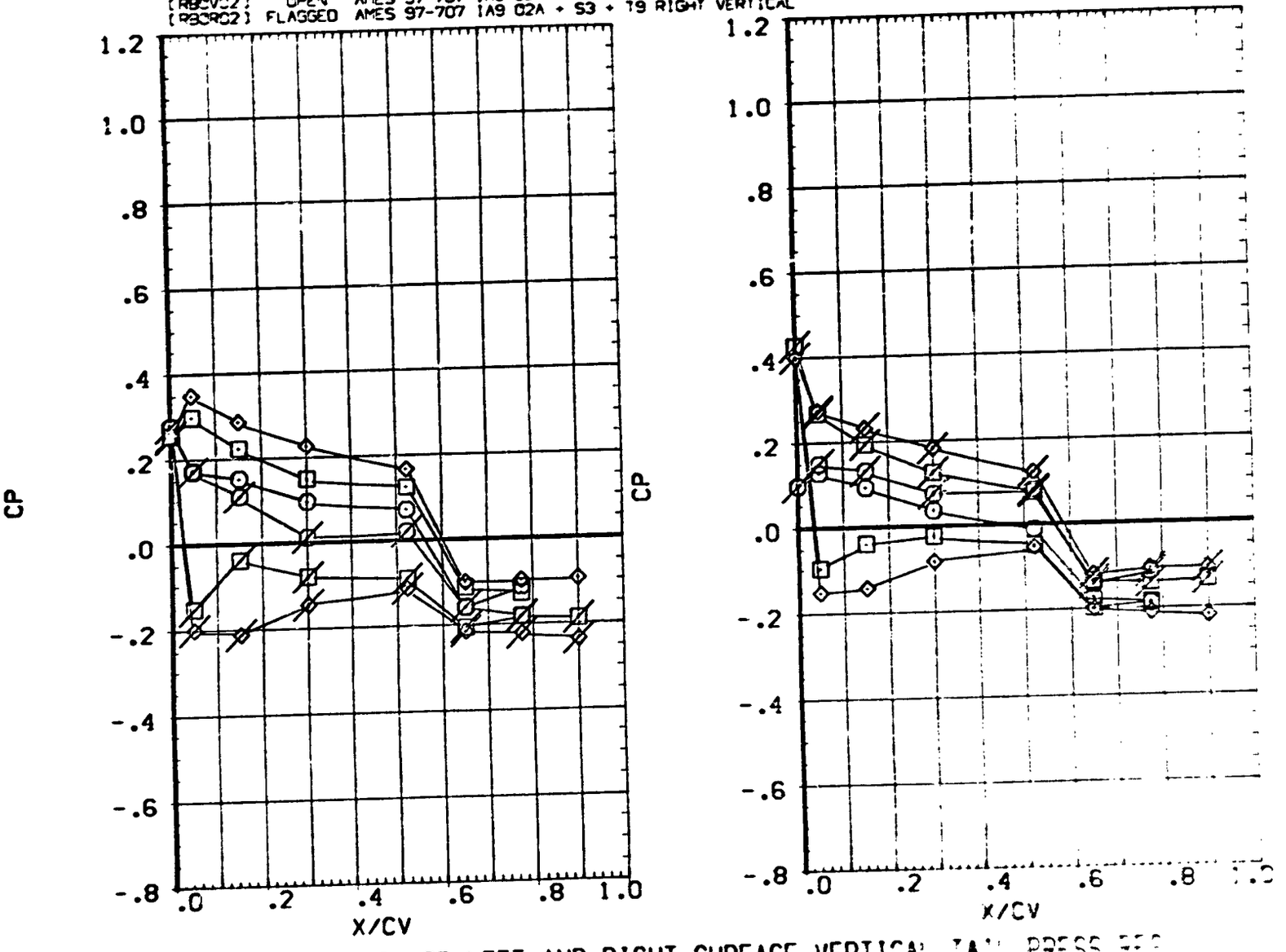
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-6.270	2.000
□	.316	3.990	
△	.600		

PARAMETRIC VALUES

ALPHAT	8.000	SPRING	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCVC2)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBCRC2)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL

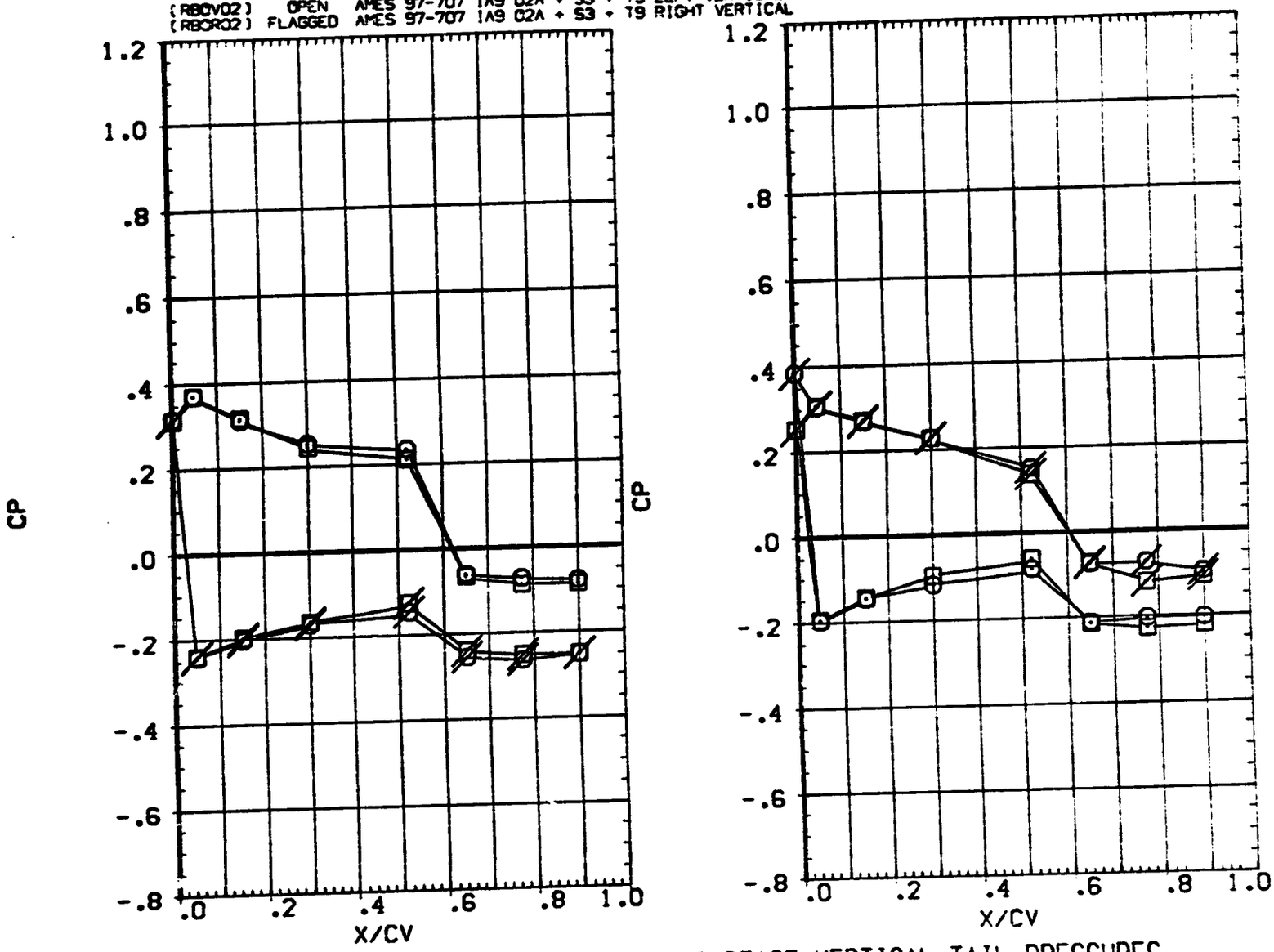


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-6.270	2.000
□	.925	3.990	

ALPHAT	8.000	CRSINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV02)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR02)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



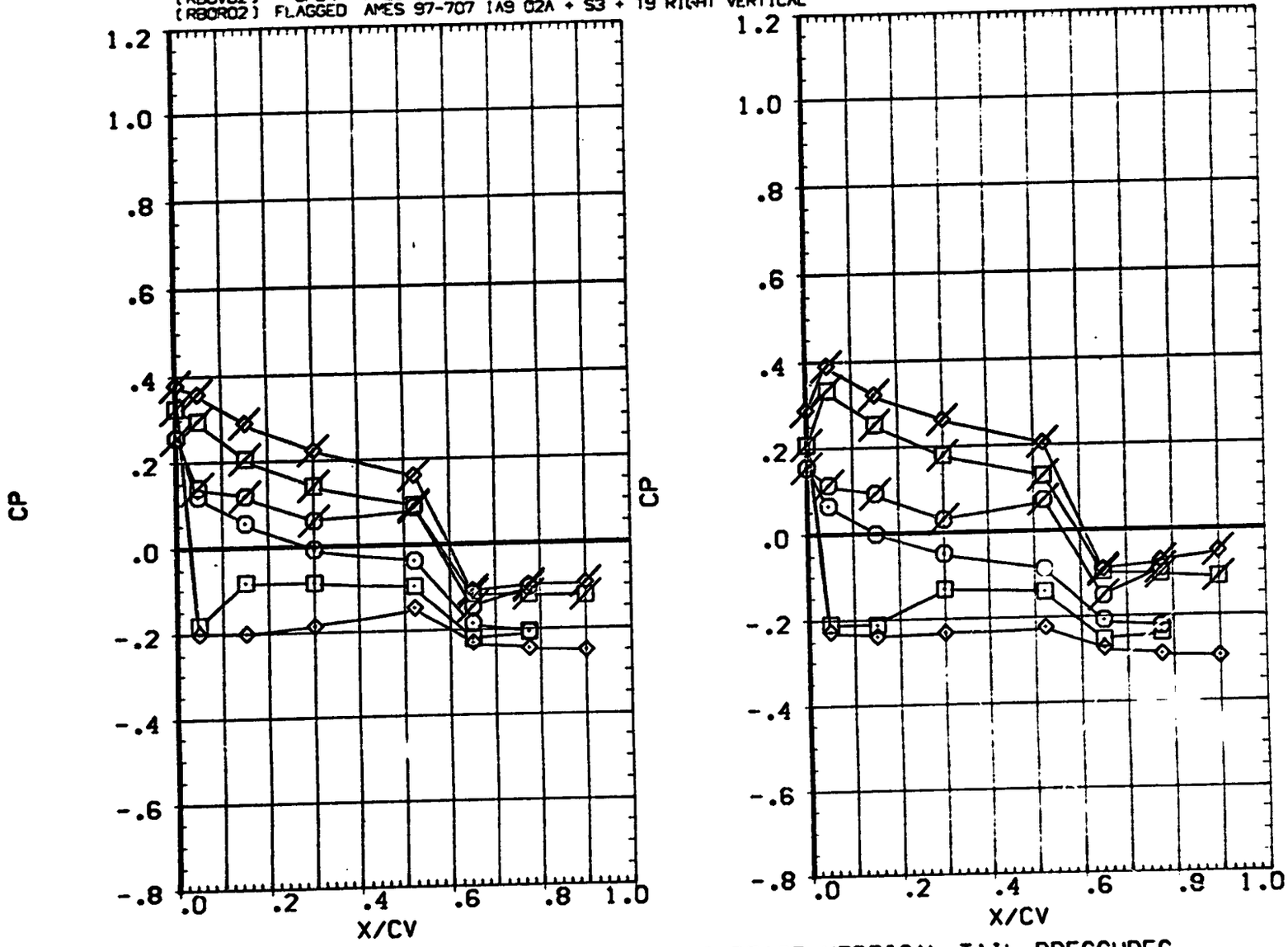
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	6.060	2.000
□	.316	8.120	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROLLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV02)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR02)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



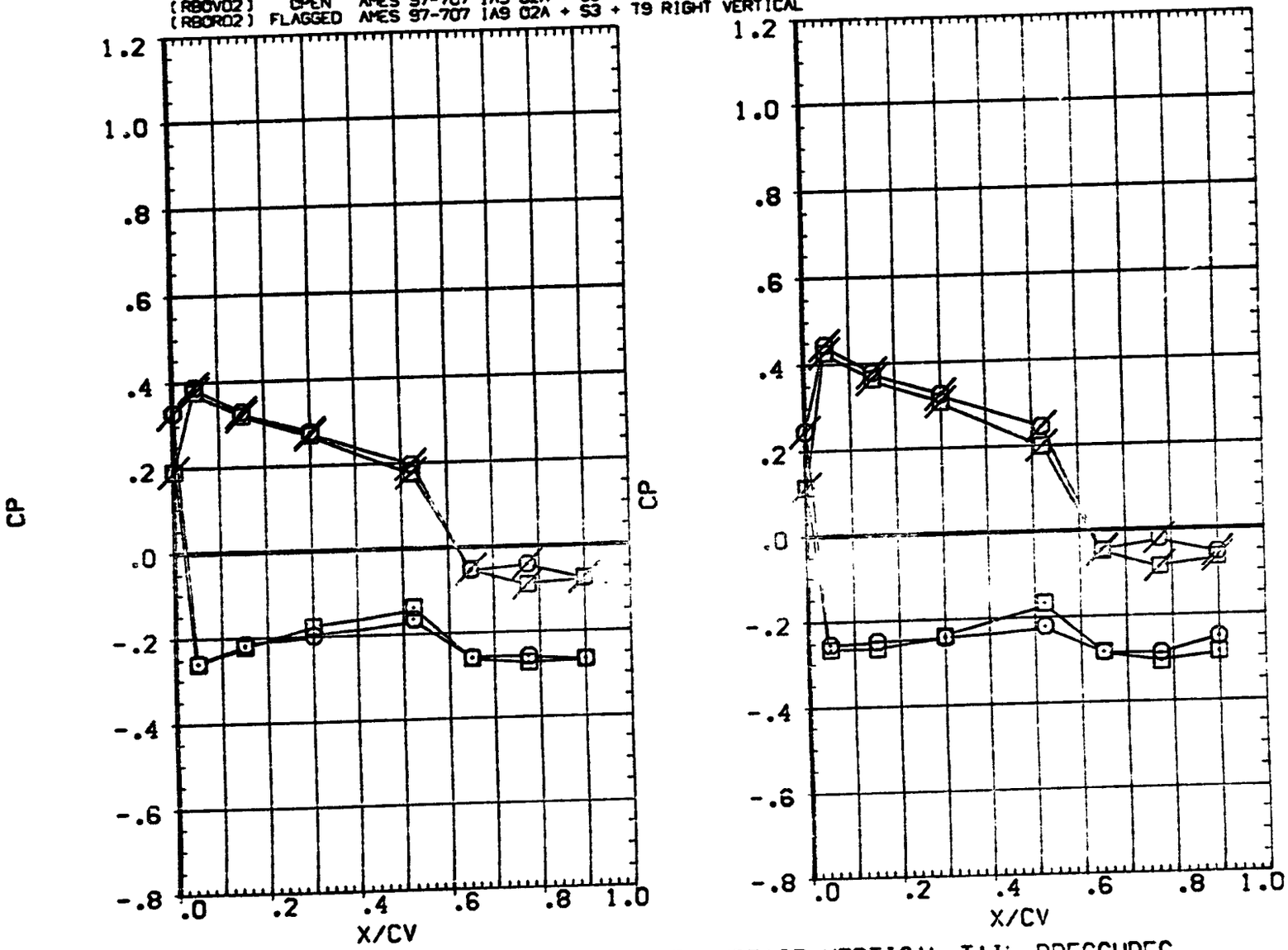
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	6.060	2.000
□	.925	8.120	

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBOV02) OPEN AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR02) FLAGGED AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



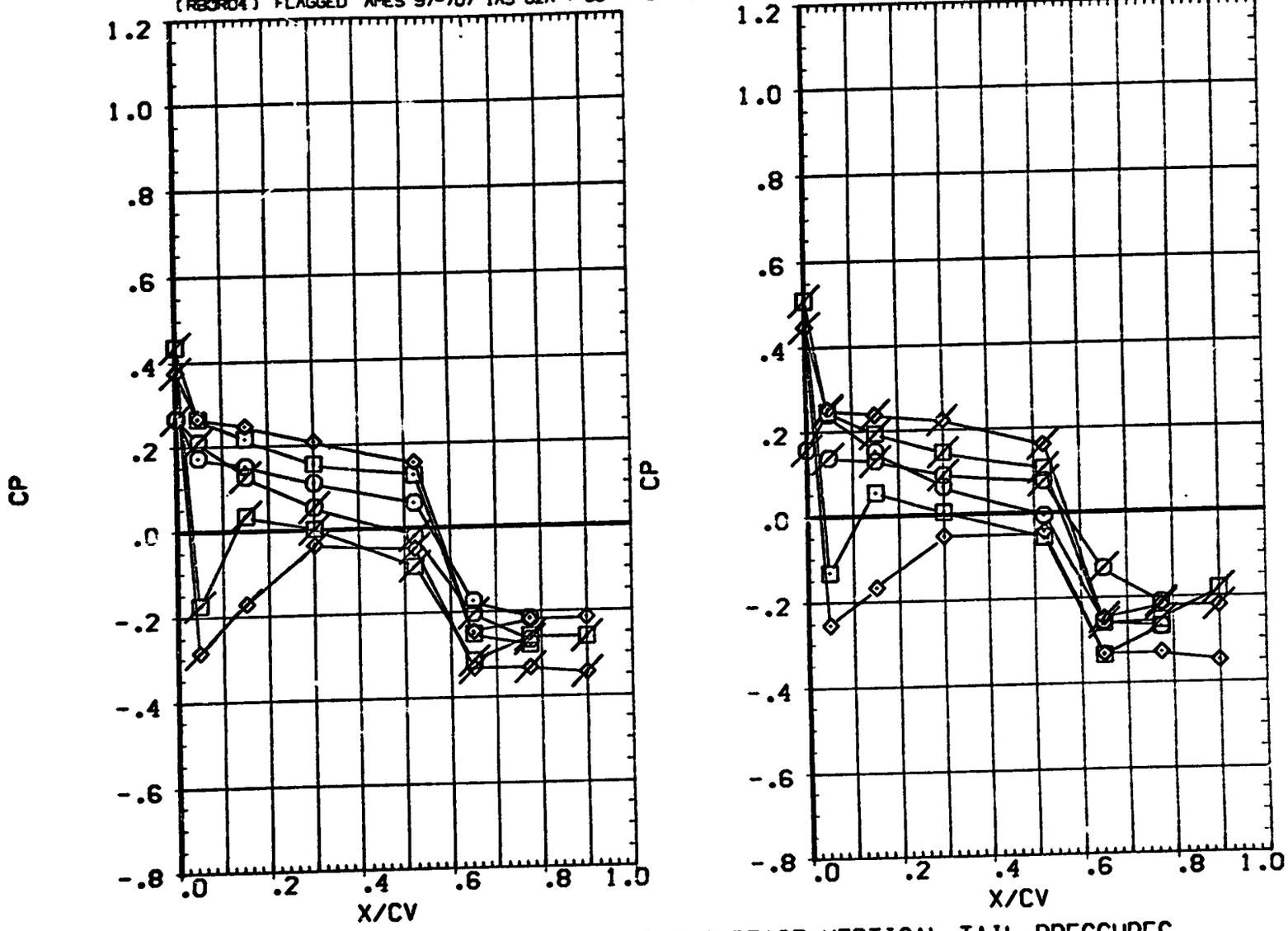
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-5.070	1.555
□	.316	5.060	
◇	.600		

PARAMETRIC VALUES

ALPHAT	4.000	CRBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCV04)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBCR04)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



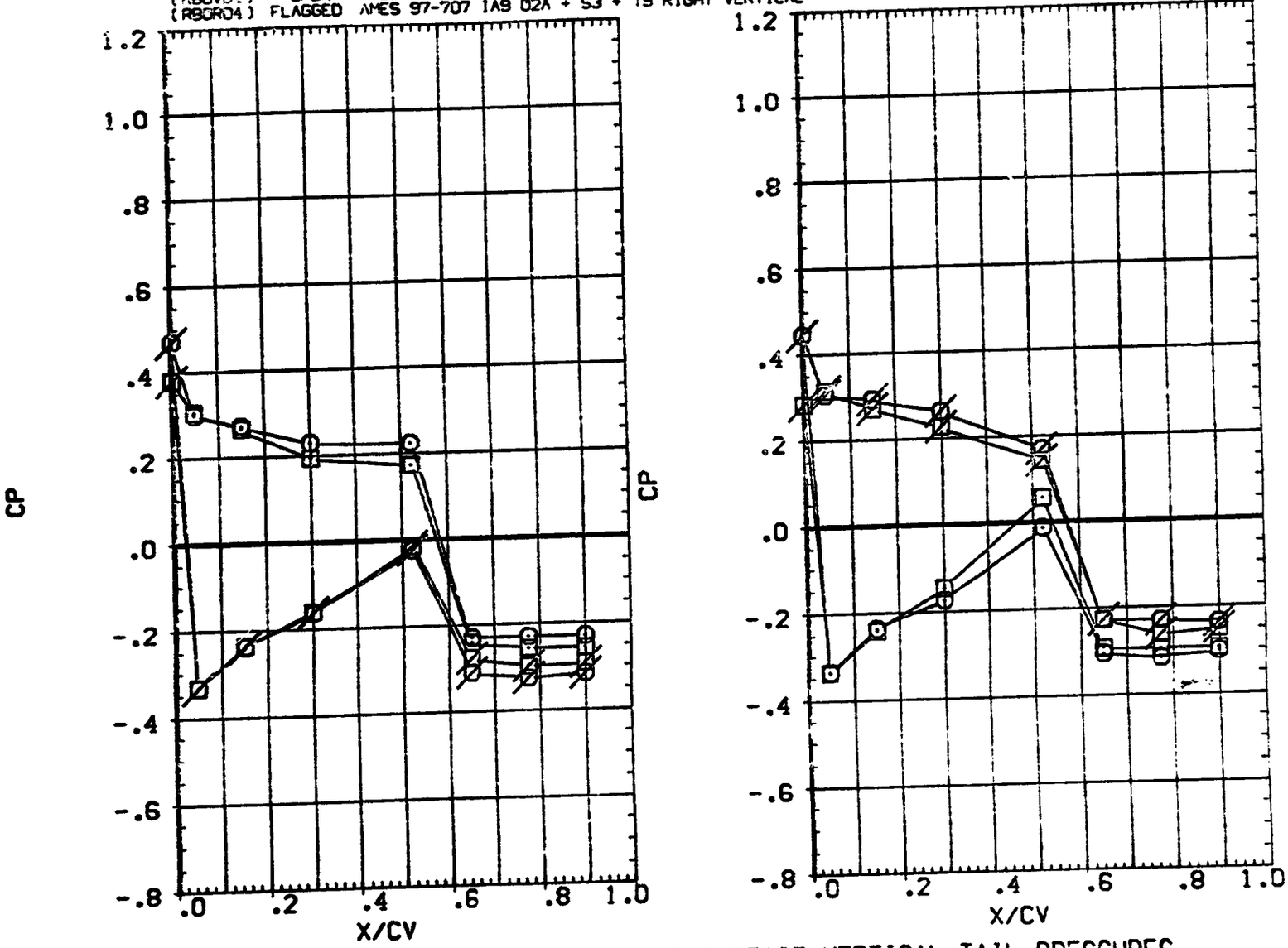
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-5.070	1.555
□	.925	5.060	

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBGV04)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBGR04)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



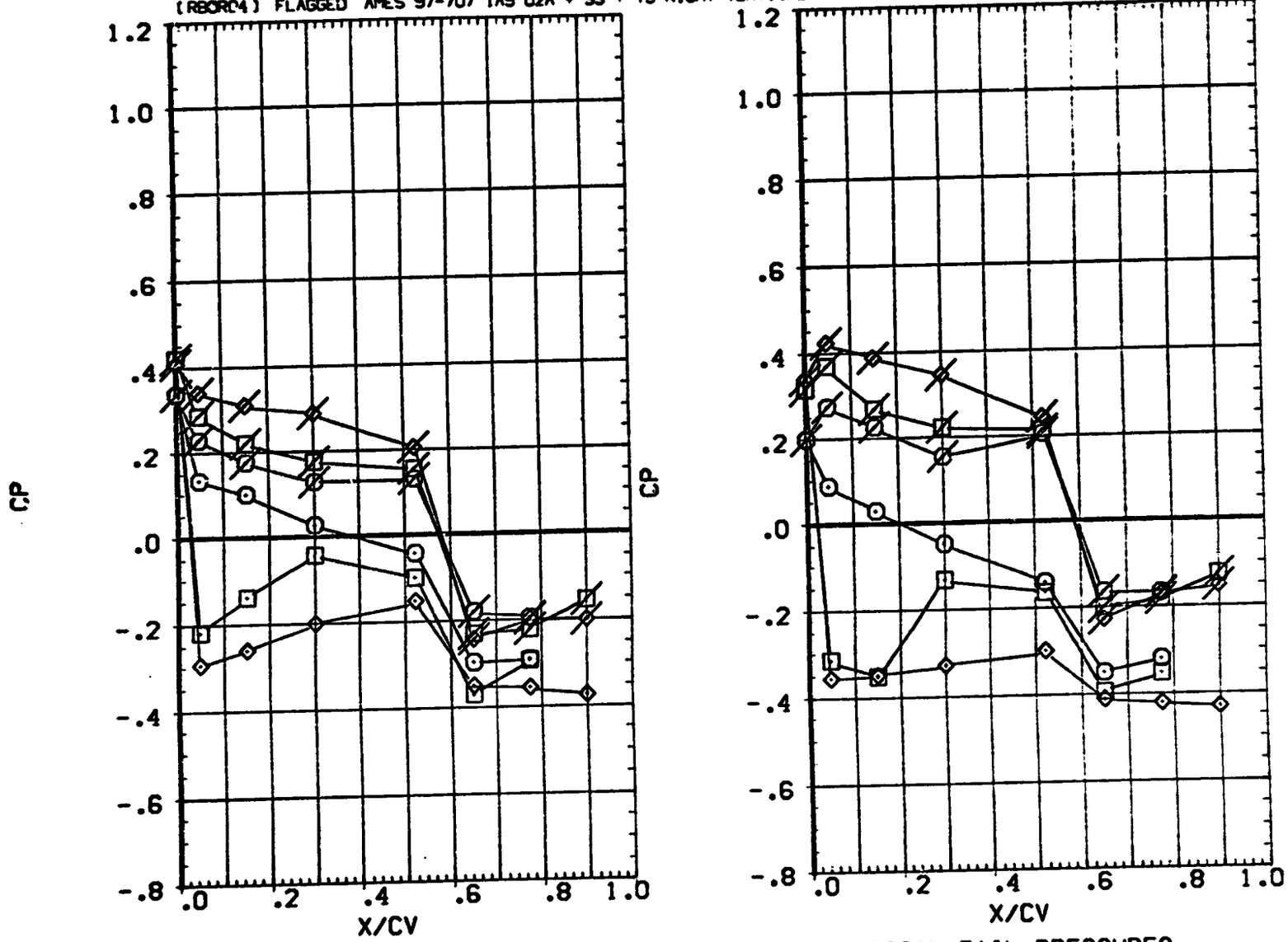
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	7.080	1.555
□	.316	9.100	
◇	.600		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV04)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR04)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



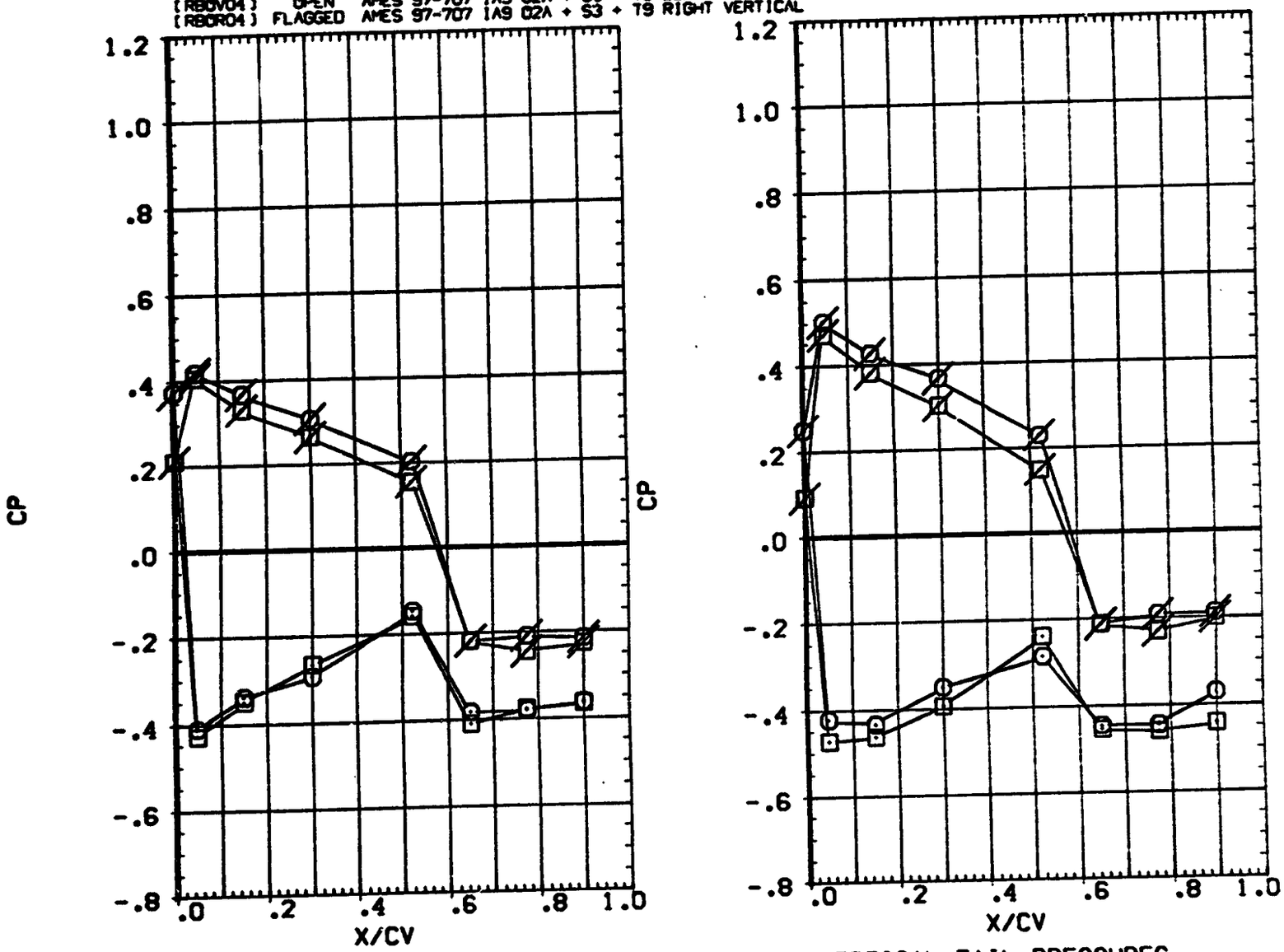
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	7.080	1.555
□	.925	9.100	

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV04)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR04)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



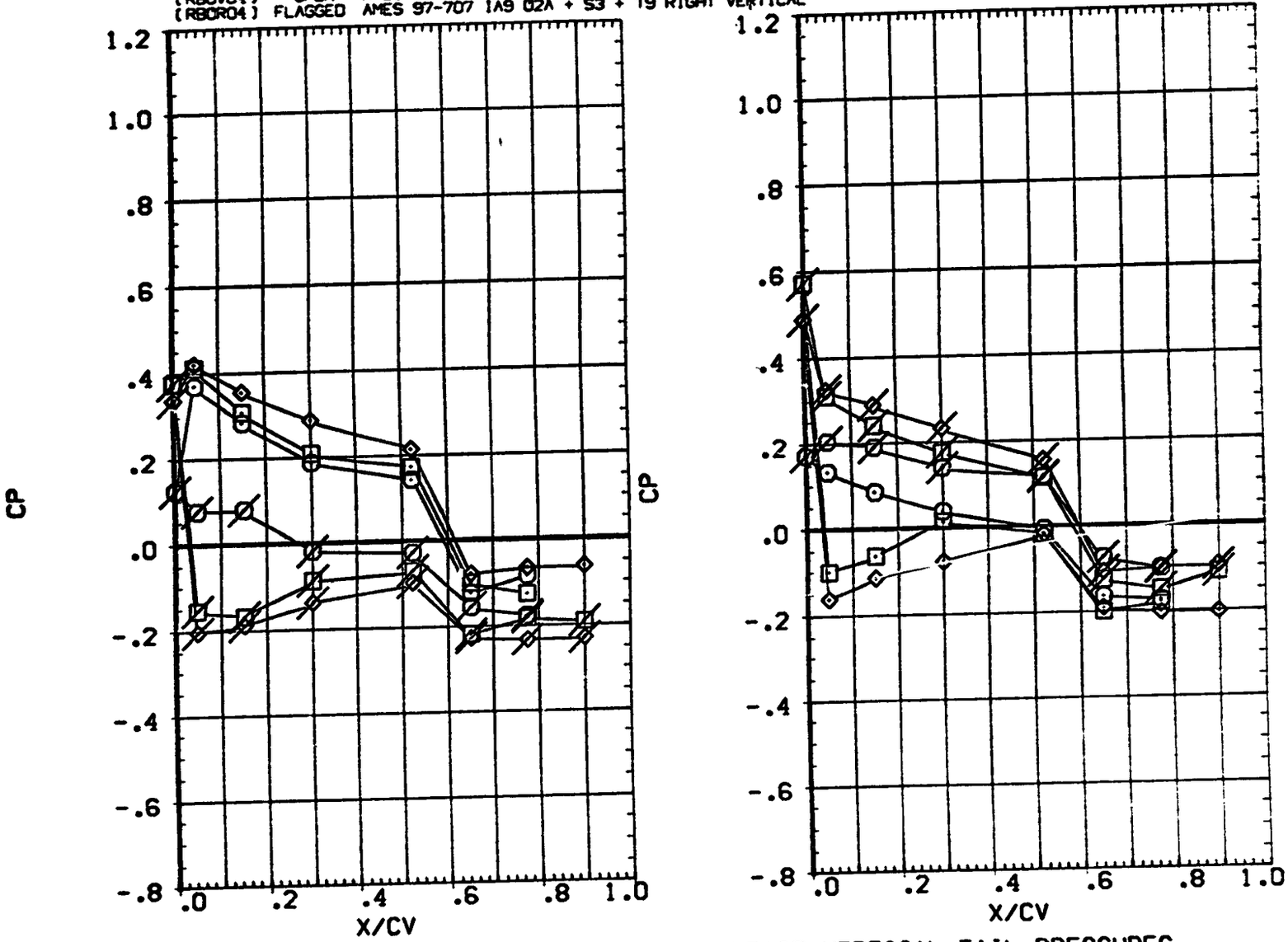
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-6.240	2.000
□	.316	3.950	
◇	.600		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV04)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR04)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



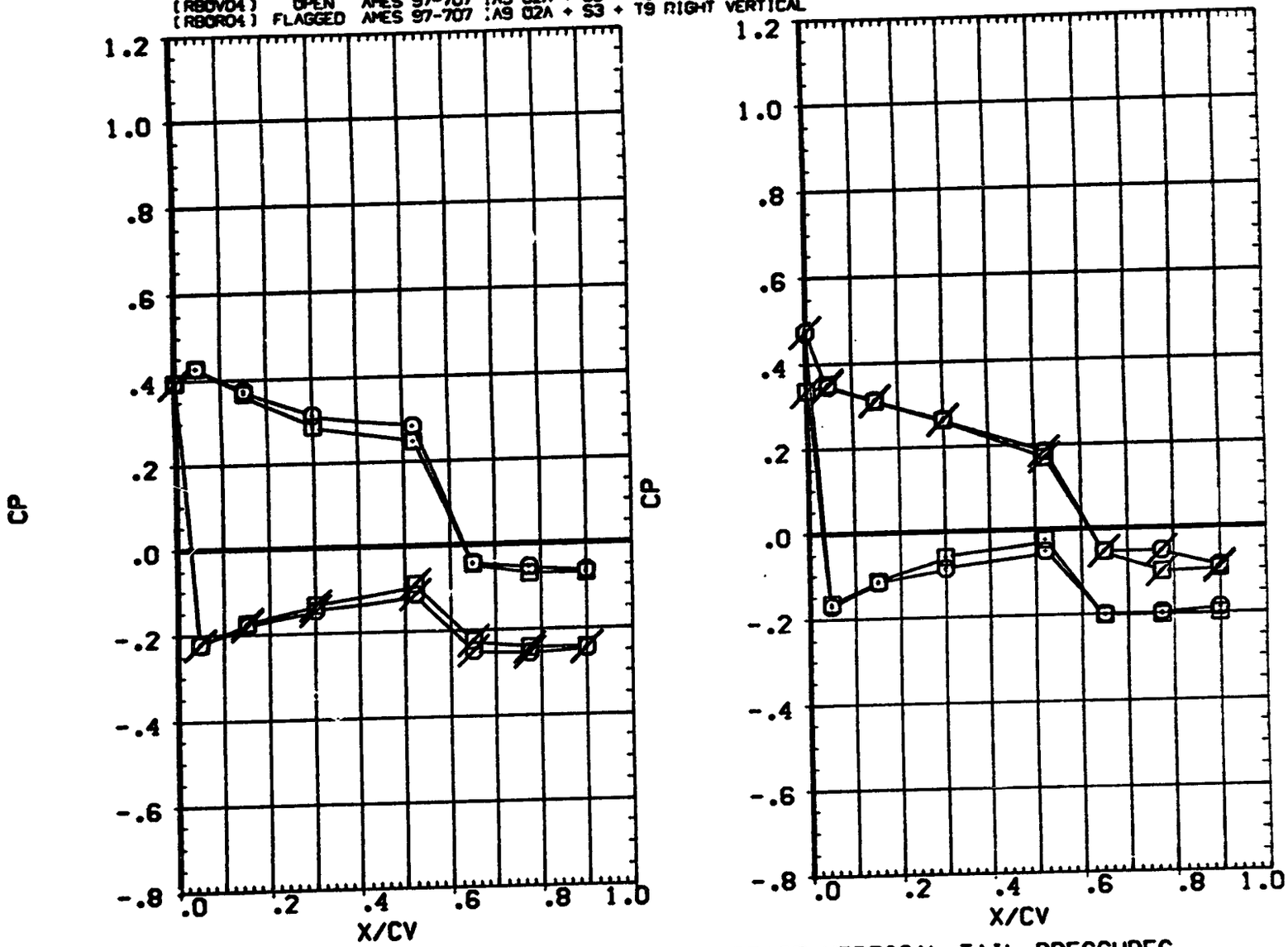
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-6.240	2.000
□	.925	3.950	

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBDV04)	OPEN	AMES 97-707 :A9 02A + S3 + T9 LEFT VERTICAL
(RBDR04)	FLAGGED	AMES 97-707 :A9 02A + S3 + T9 RIGHT VERTICAL



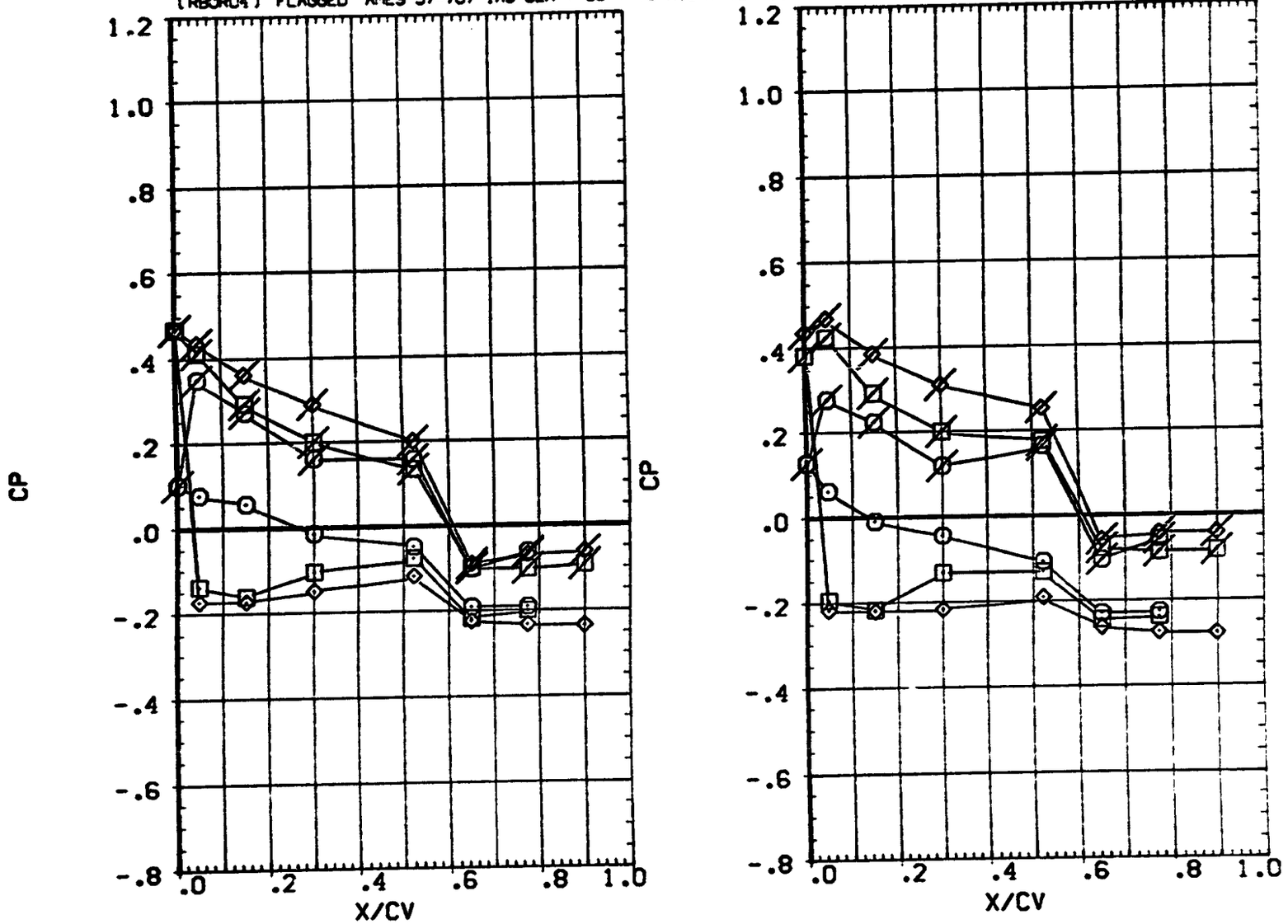
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	5.990	2.000
□	.316	8.030	
◇	.600		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV04)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR04)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



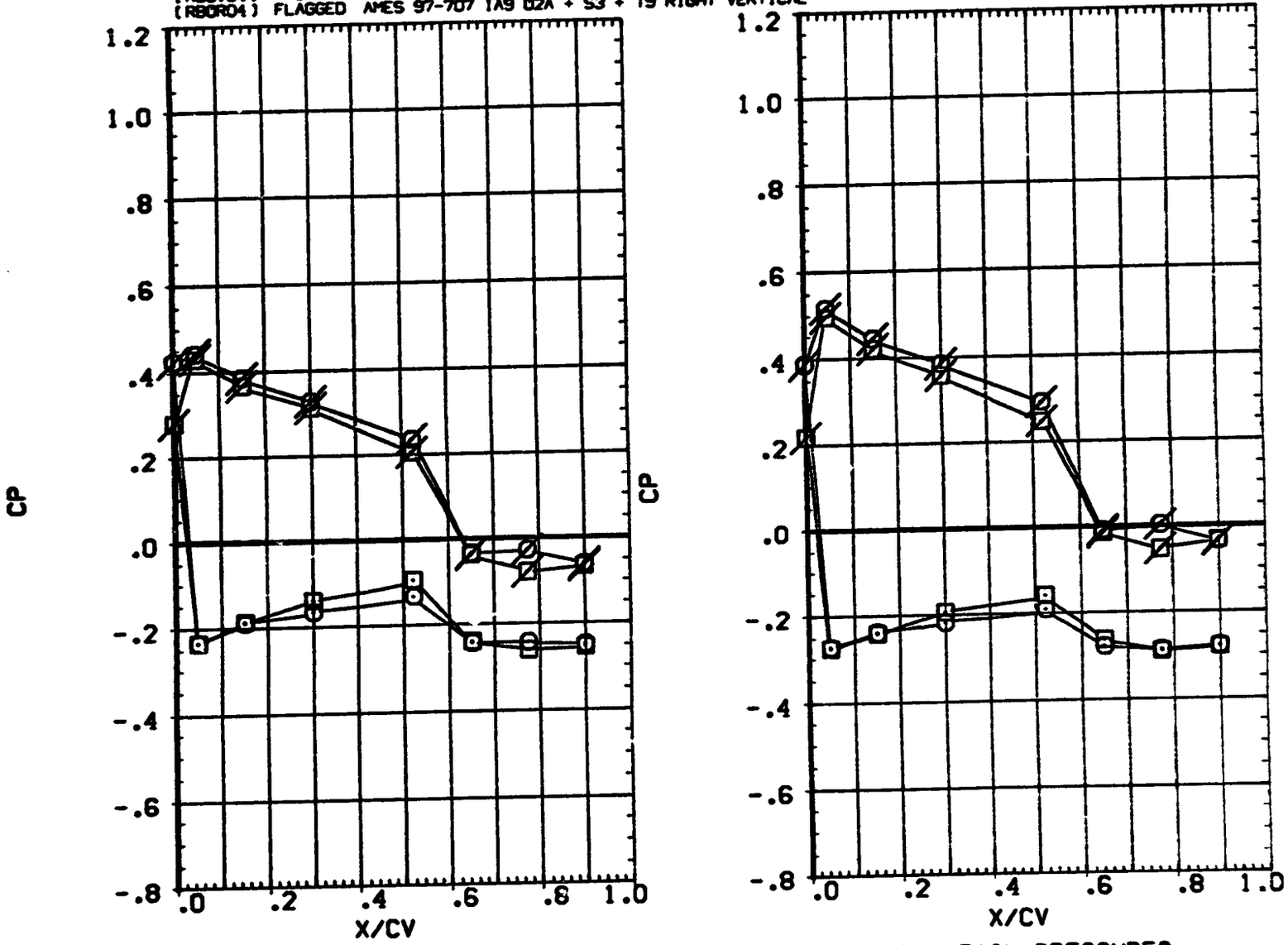
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	5.990	2.000
□	.925	8.030	

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV04)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR04)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



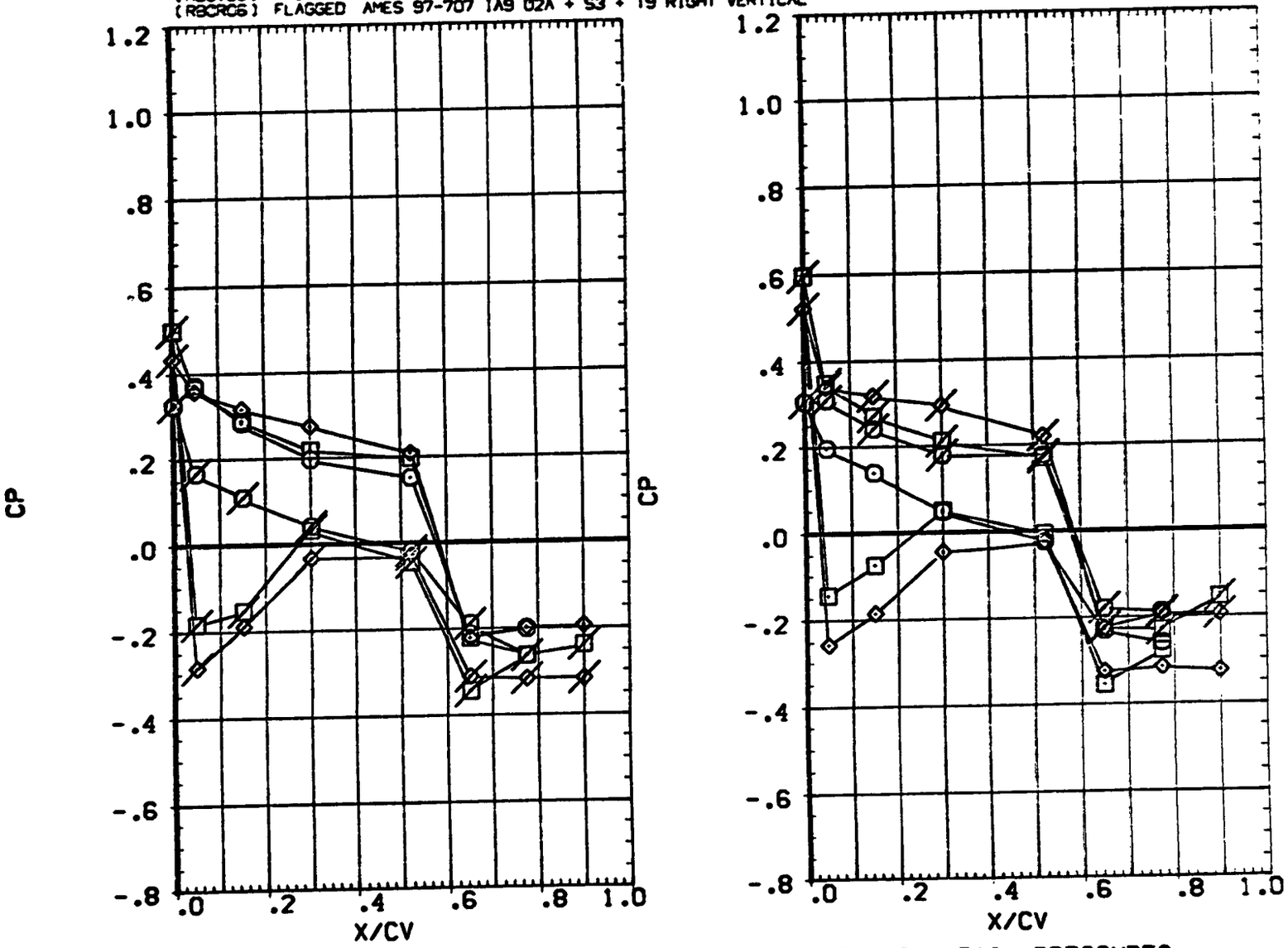
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-5.080	1.555
□	.316	5.050	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	DRGINC	.500
PUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV06)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBCRC6)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



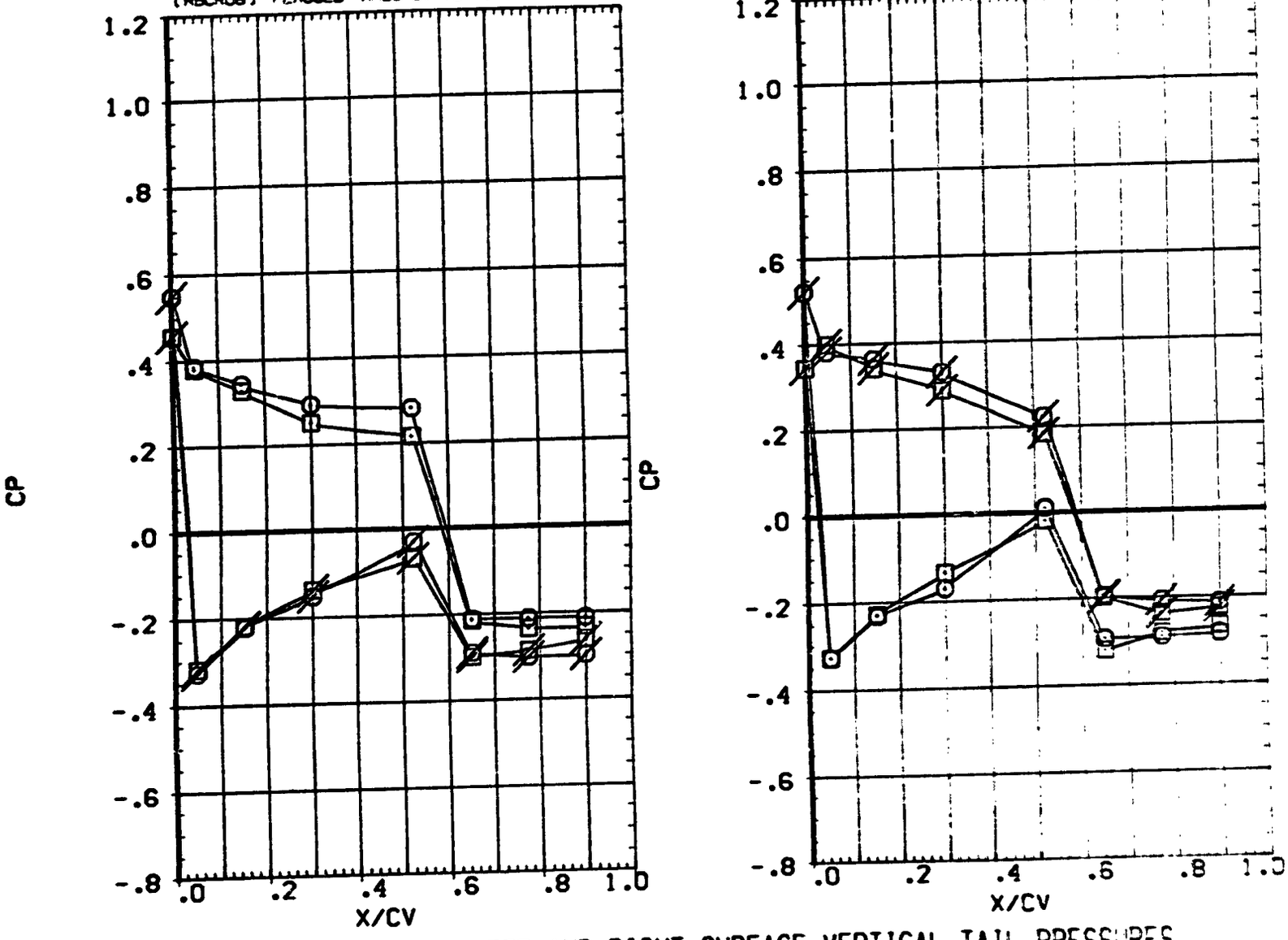
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-5.080	1.555
□	.925	5.050	

PARAMETRIC VALUES

ALPHAT	.000	SPBINC	.500
RUDDER	.000	ELEVCN	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOVOS)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBCROS)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



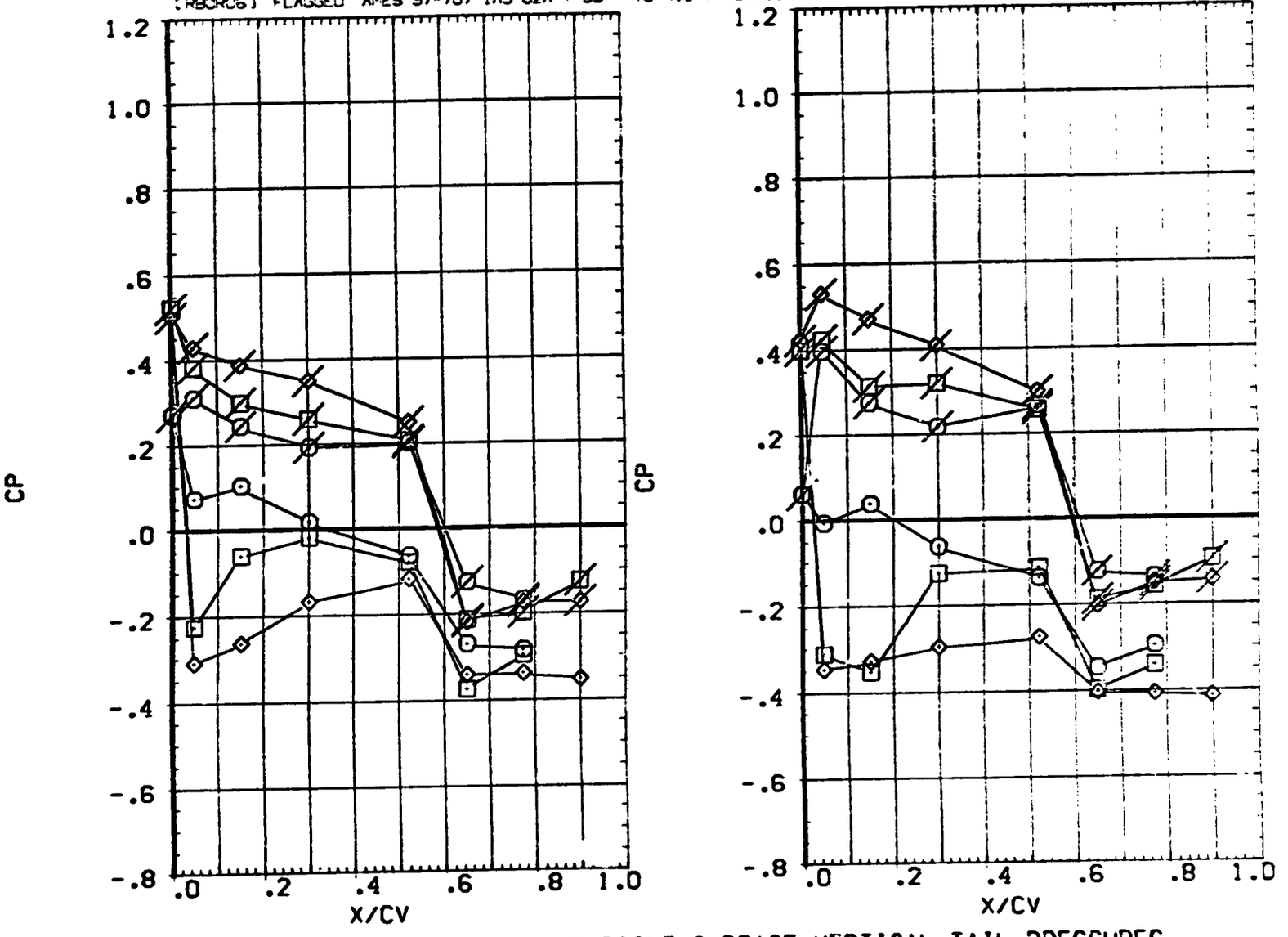
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	7.060	1.555
□	.316	9.090	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	DBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCVOS)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBCRCS)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



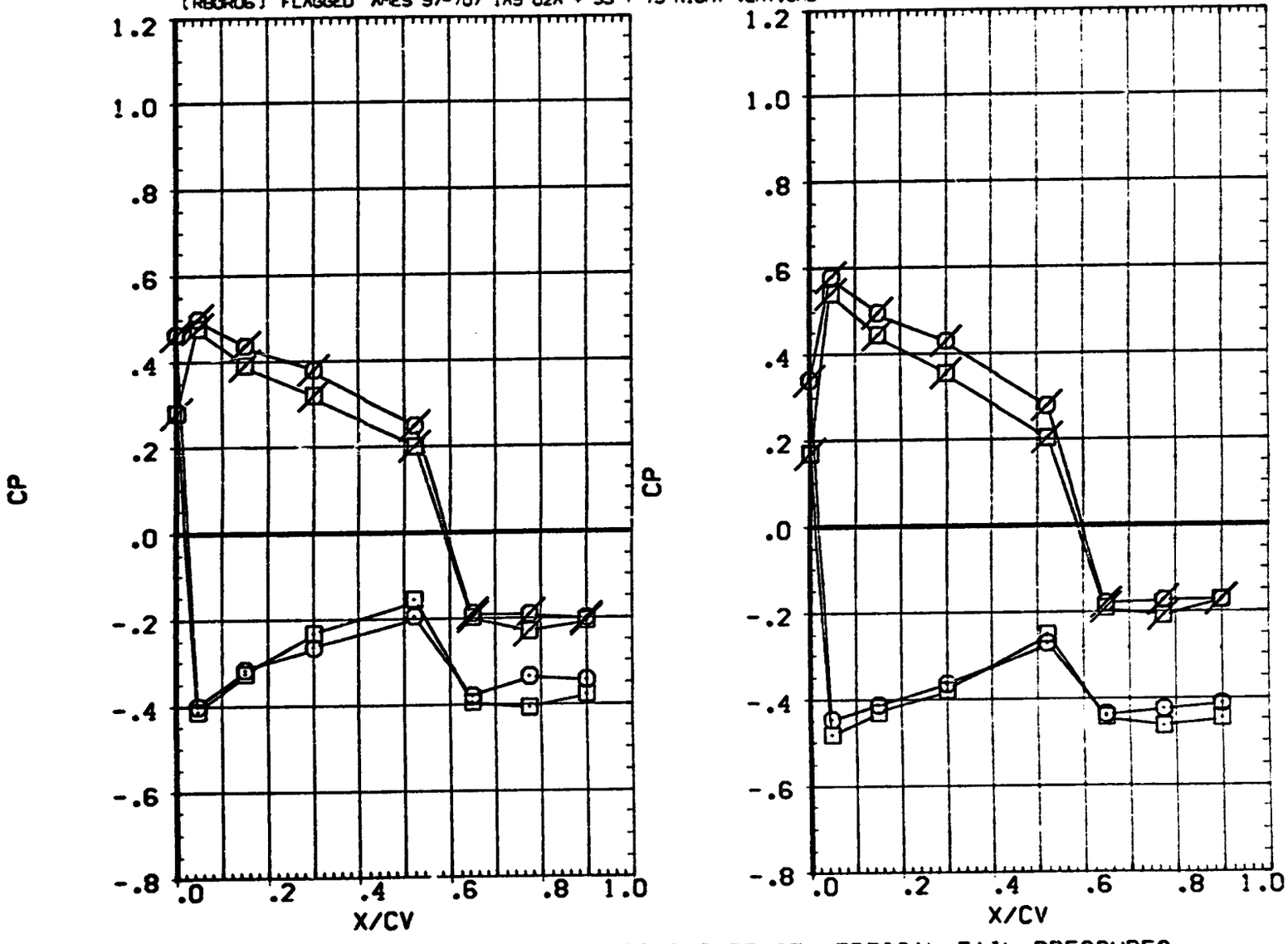
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	7.060	1.555
□	.925	9.090	

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV06)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR06)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



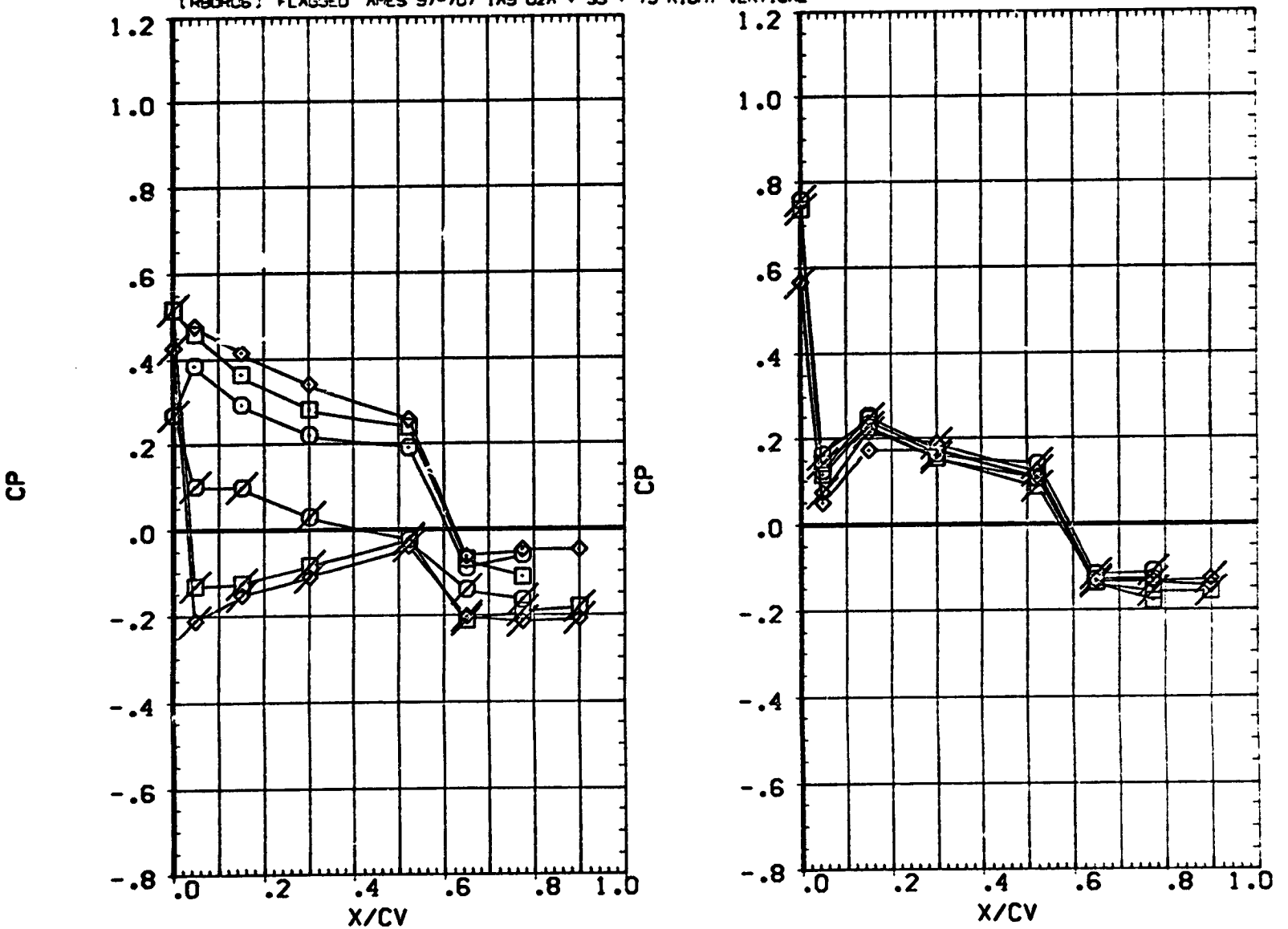
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-6.250	2.000
□	.316	-.130	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVCN	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV06)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBORC6)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



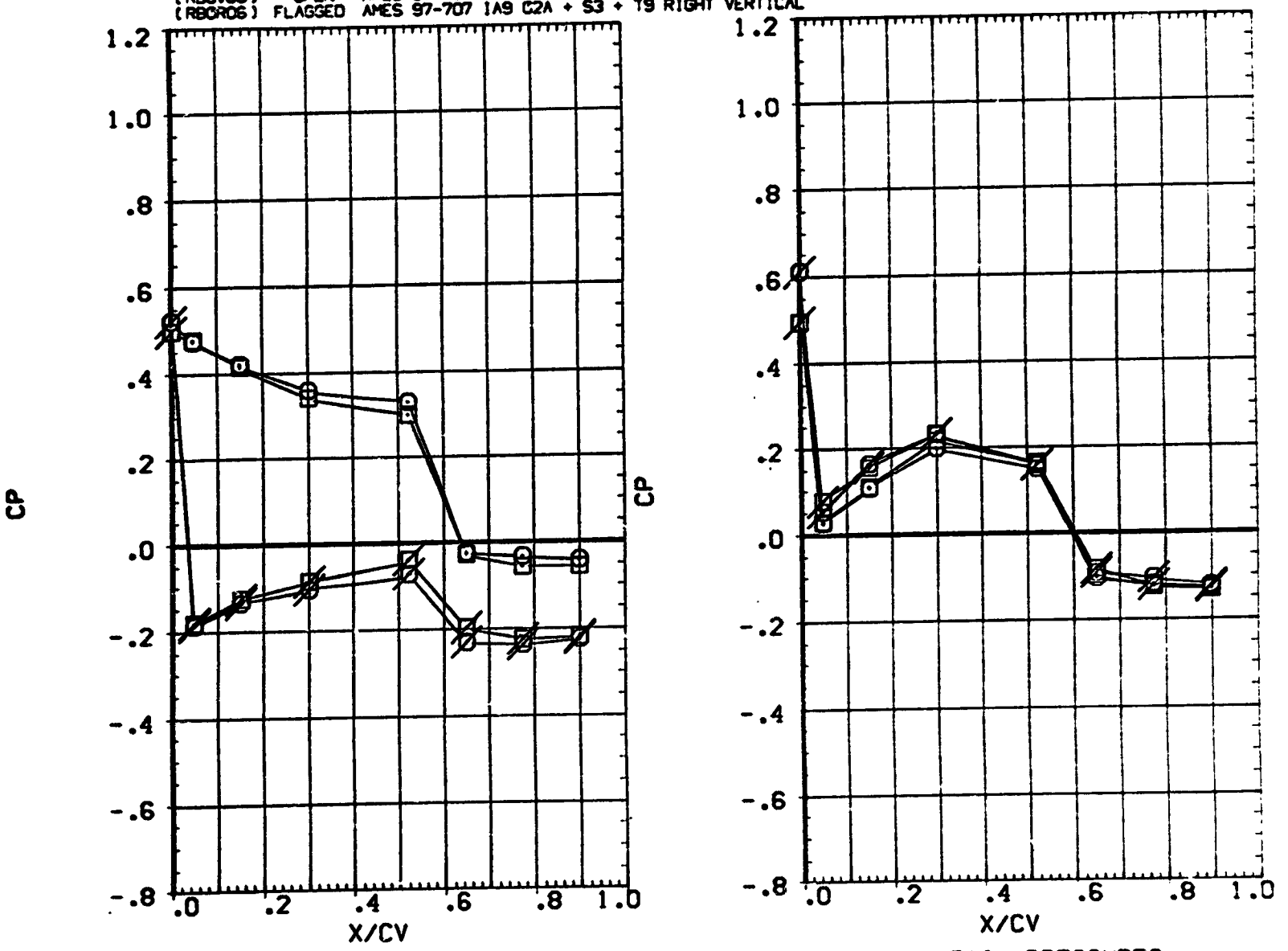
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-6.250	2.000
□	.925	-.130	

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVCN	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV06)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR06)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



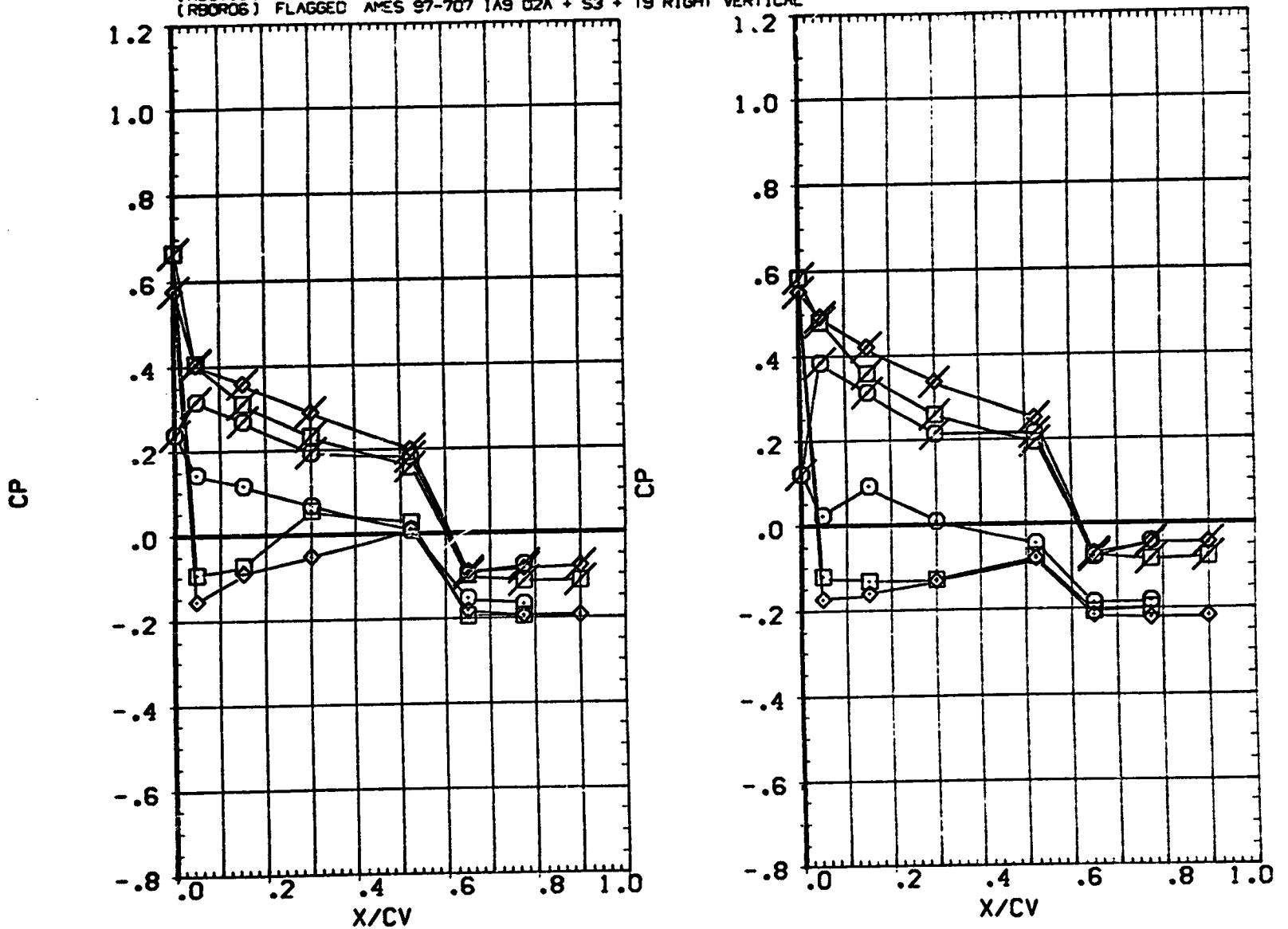
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	3.950	2.000
□	.316	5.980	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV06)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR06)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



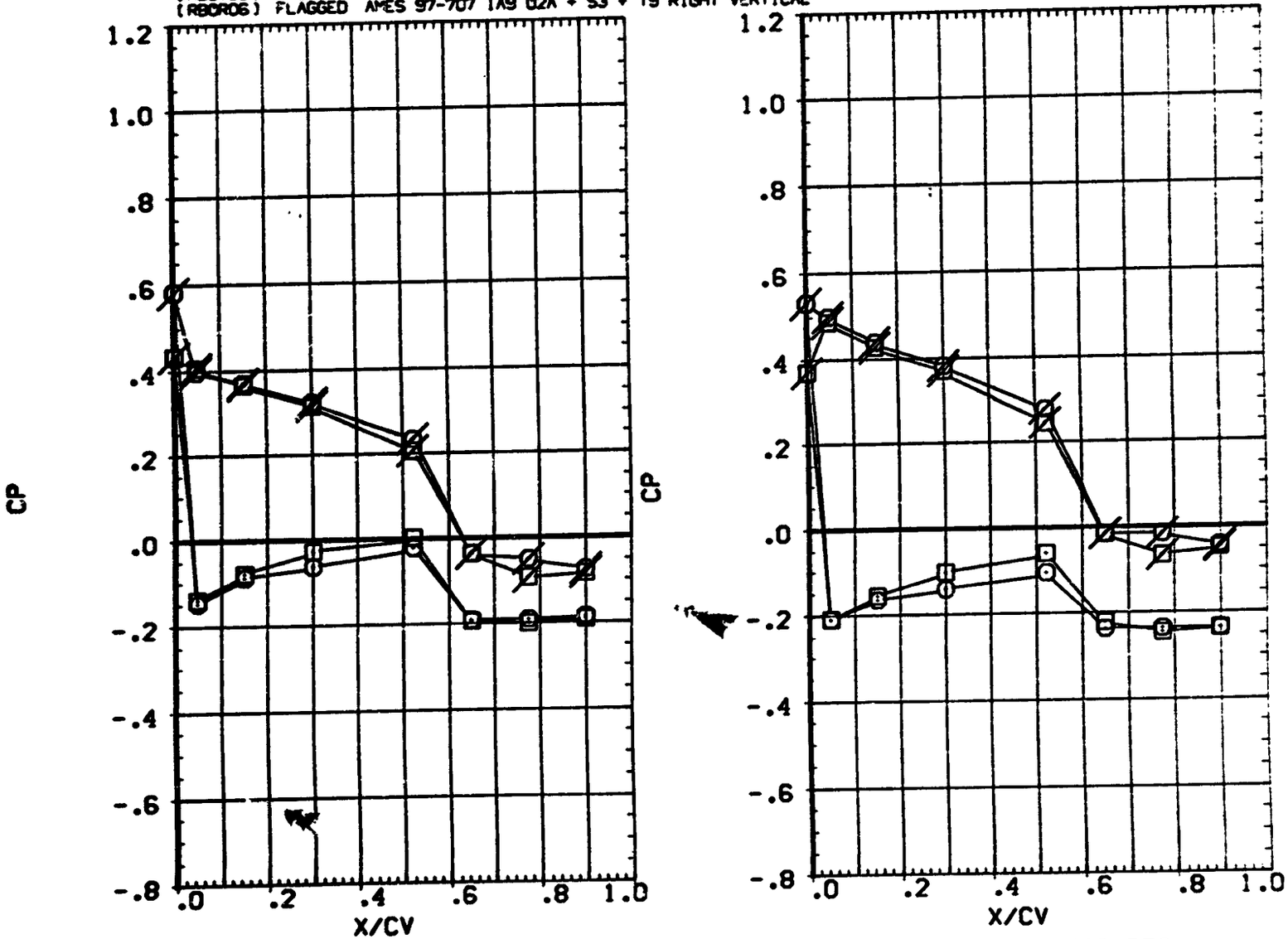
CHORDWISE DISTRIBUTION OF LEFT-AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	3.950	2.000
□	.925	5.980	

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOVO6)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBORO6)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



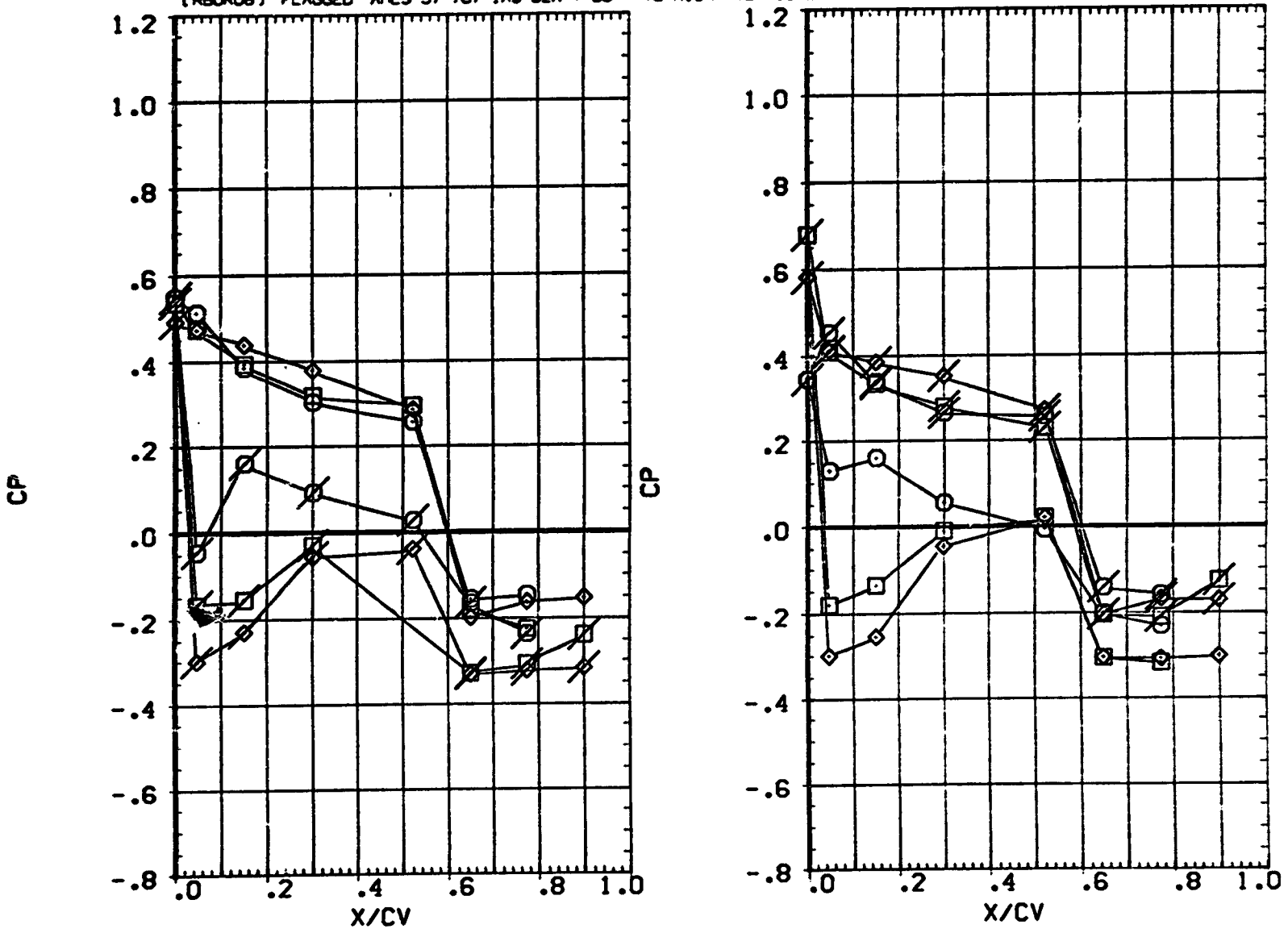
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-6.150	1.555
□	.316	5.030	
◇	.600		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV08)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR08)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



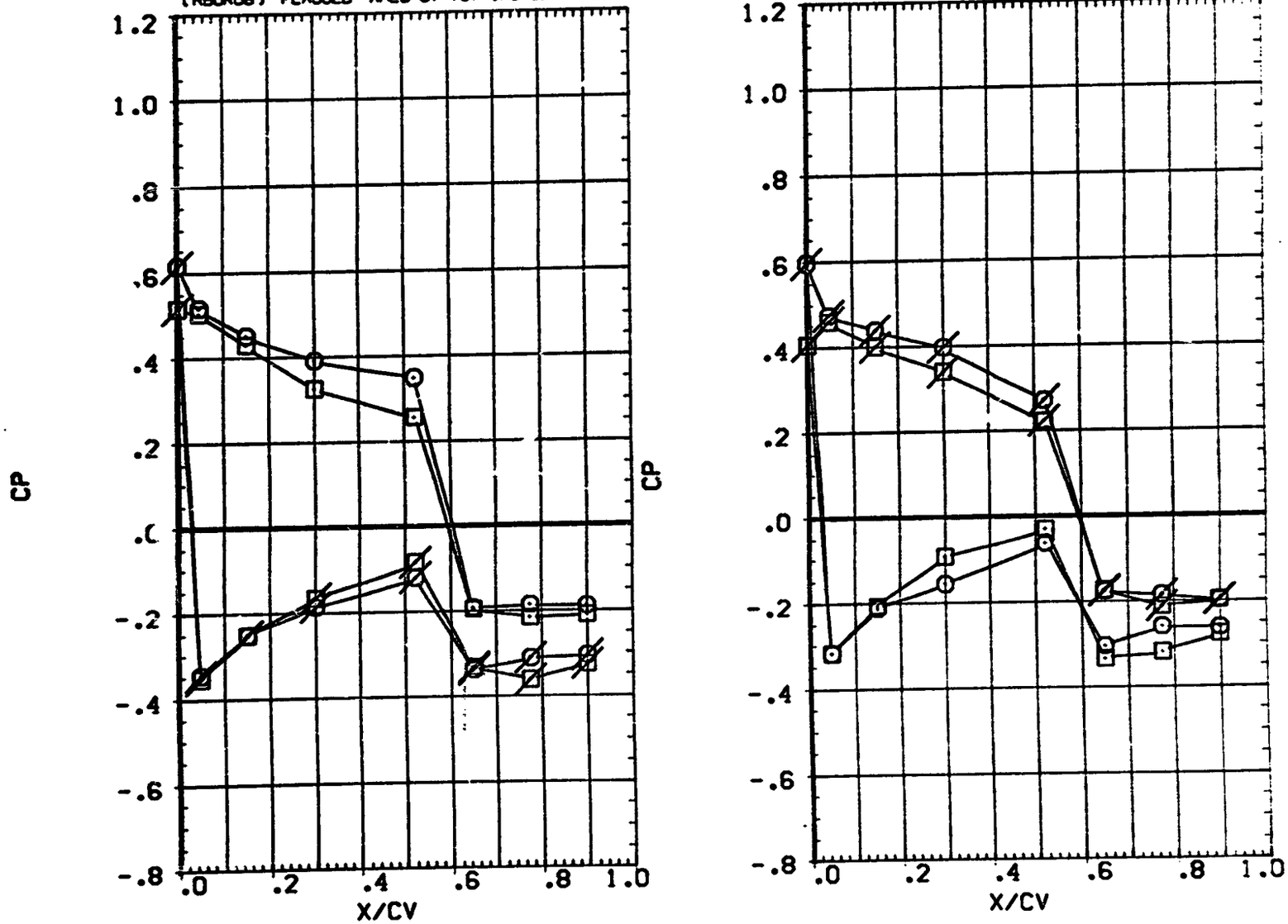
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-6.150	1.555
□	.925	5.030	

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV08)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR08)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



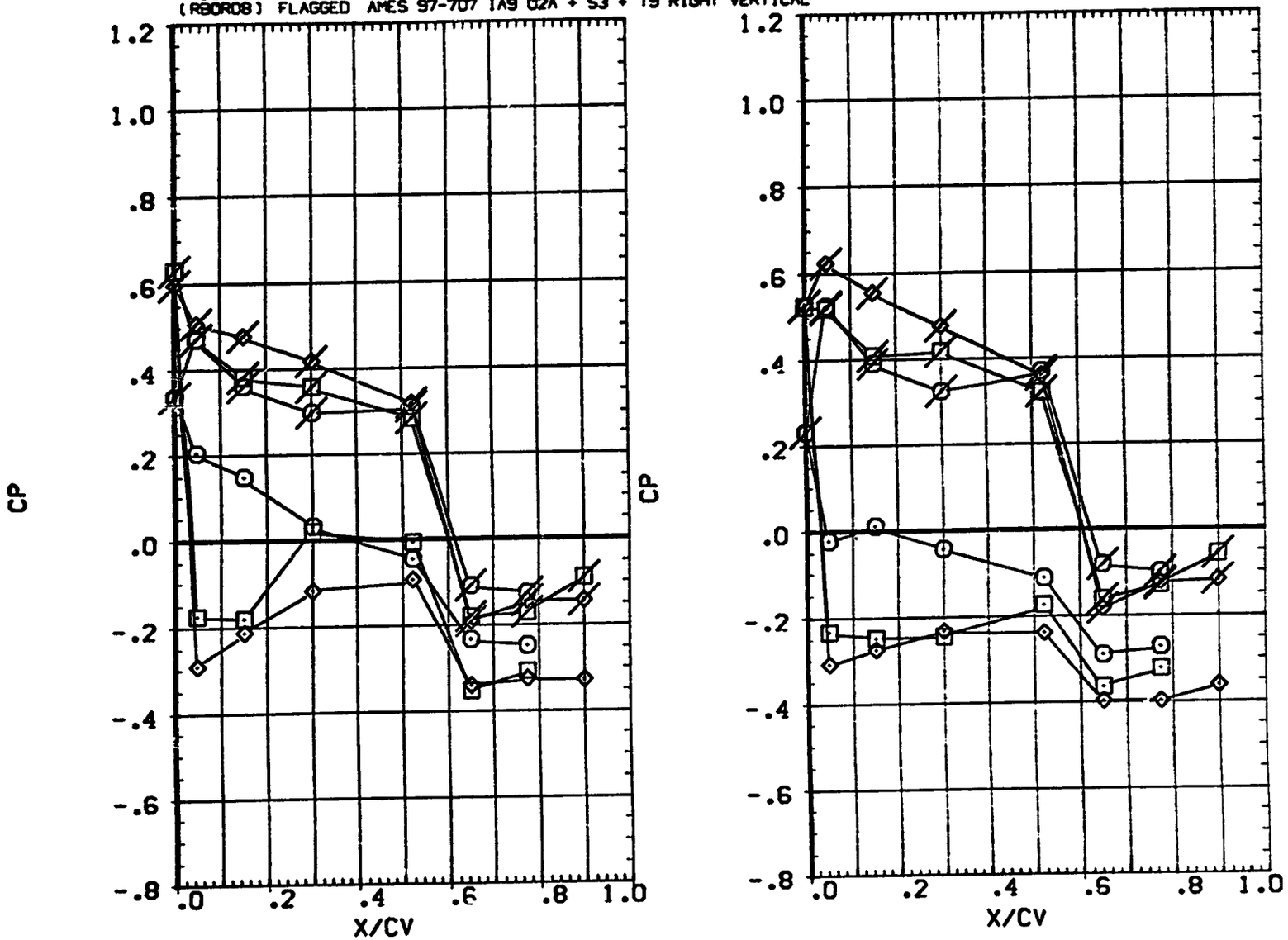
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	7.050	1.555
□	.316	9.070	
◇	.600		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(R80V08)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(R80R08)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



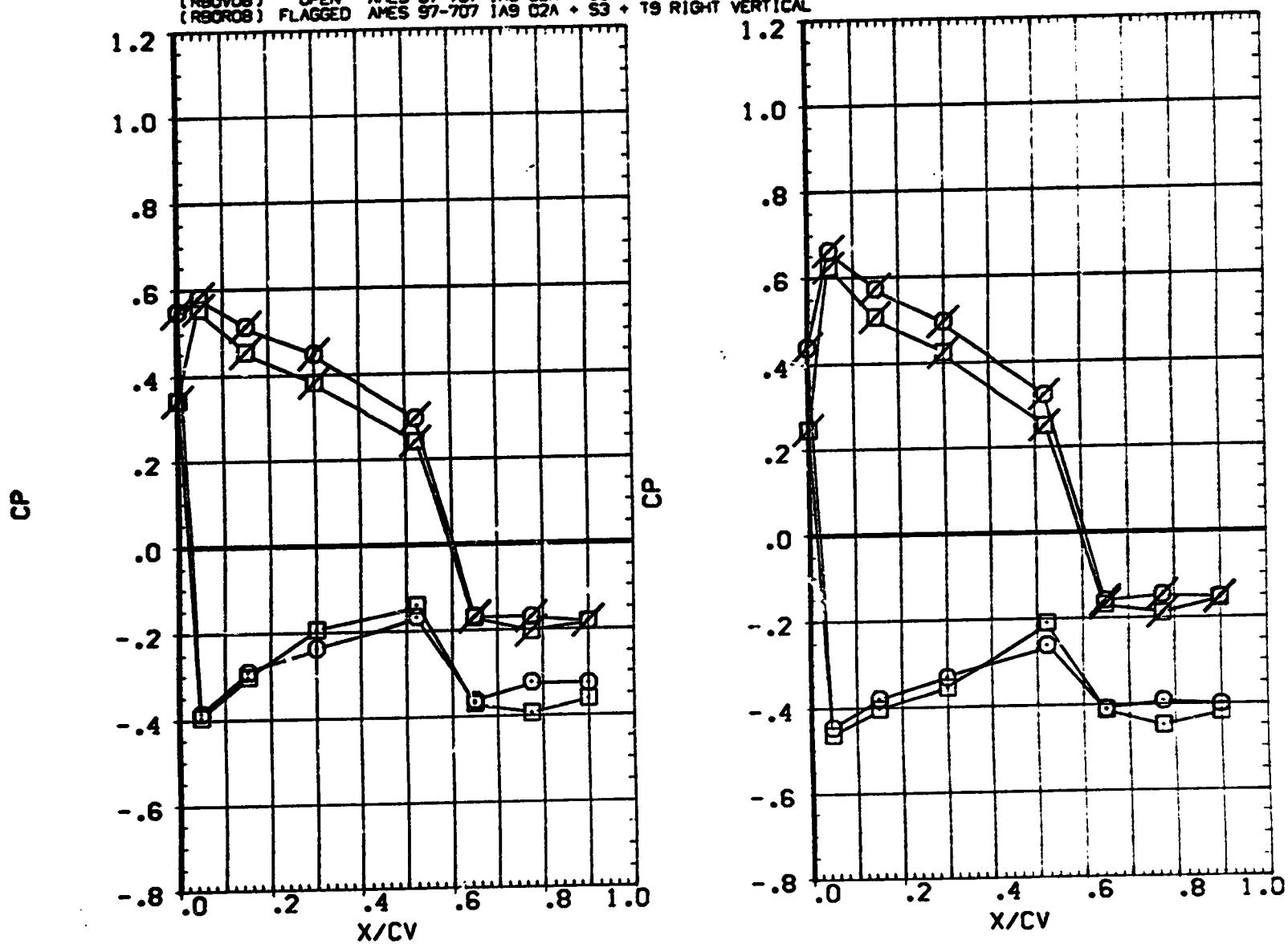
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	7.050	1.555
□	.925	9.070	

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOVOB)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOROB)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



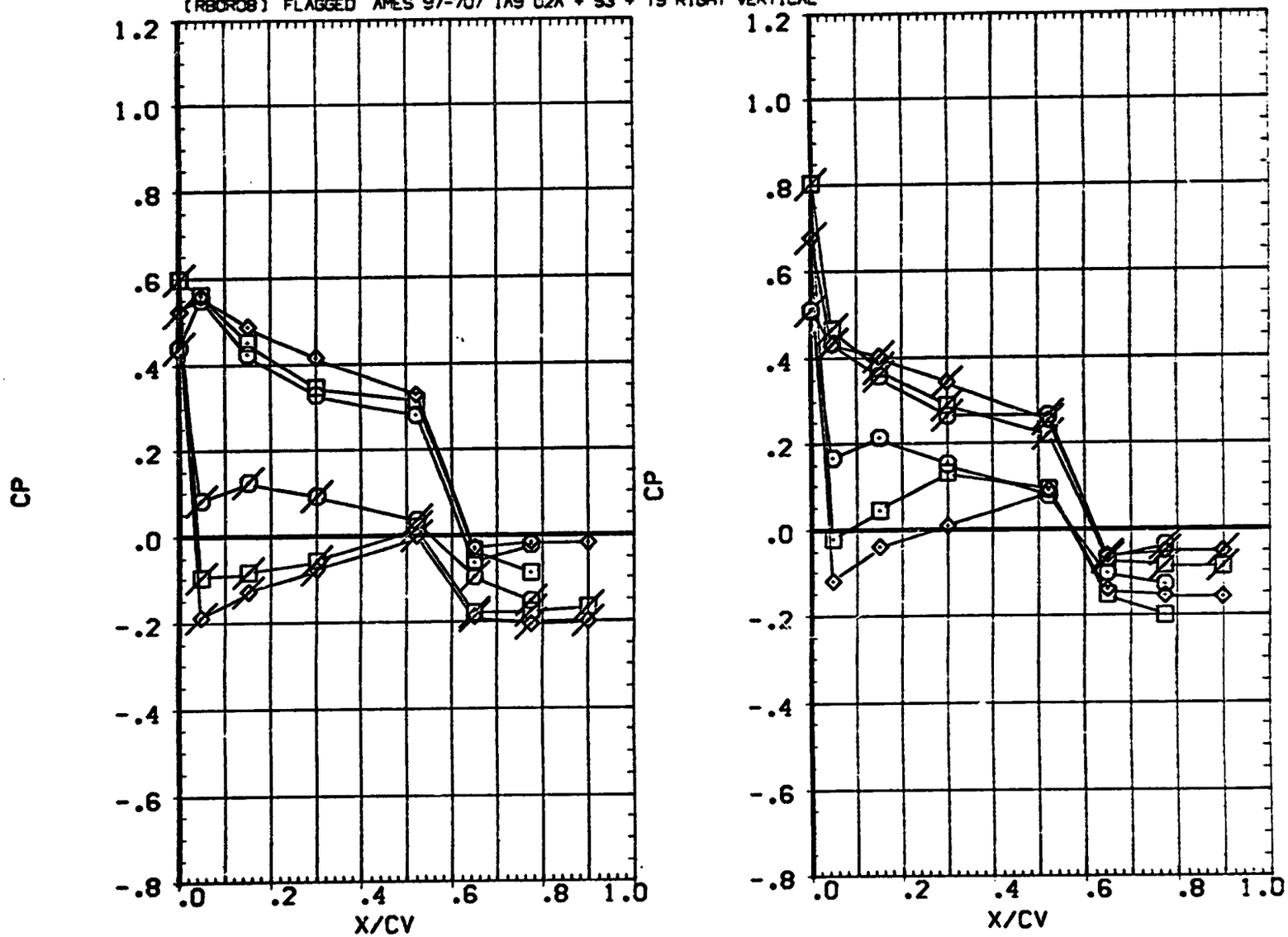
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-5.270	2.000
□	.316	3.920	
◇	.600		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV08)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR08)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



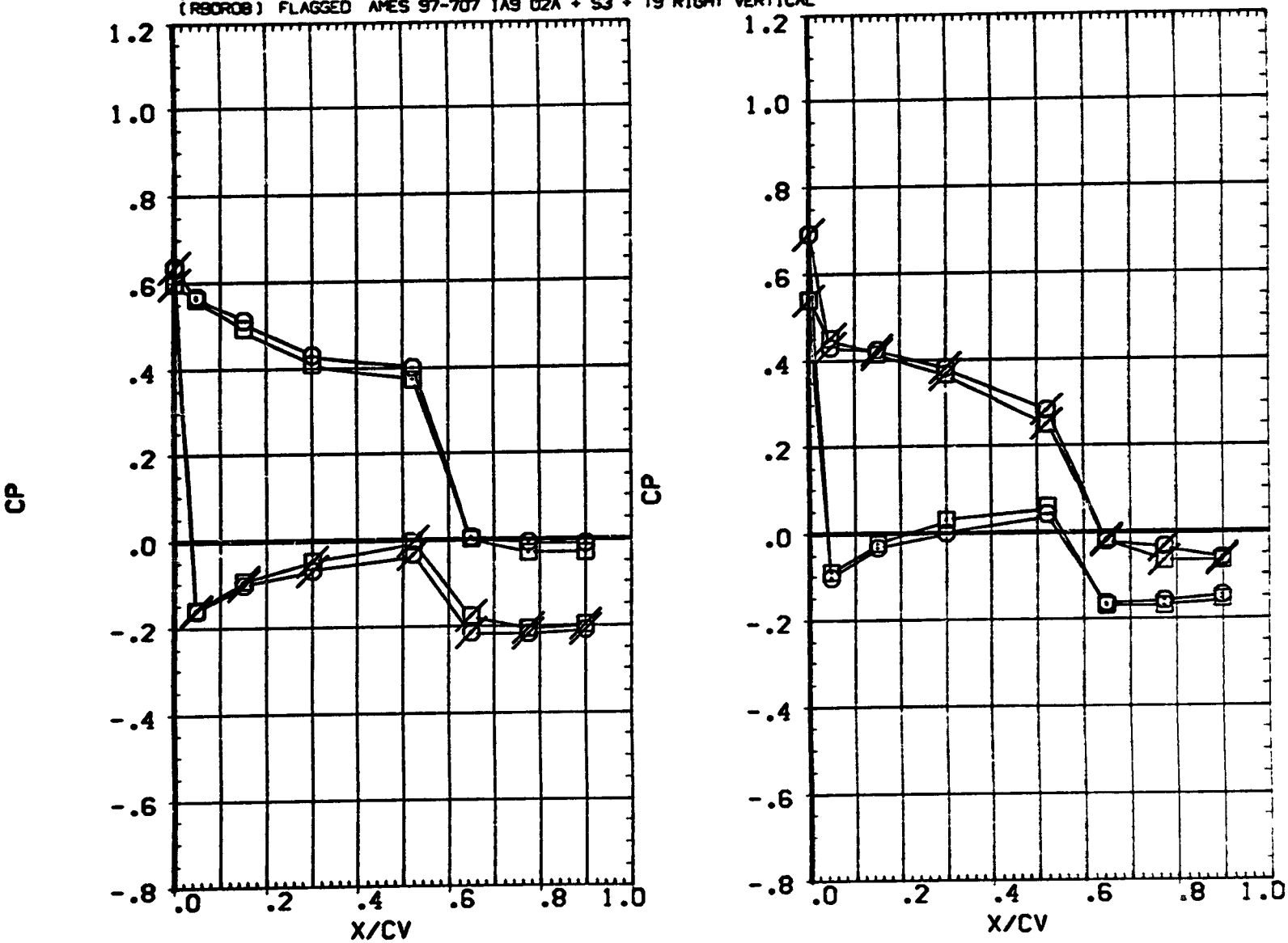
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-6.270	2.000
□	.925	3.920	

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBOVOB) OPEN AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOROB) FLAGGED AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



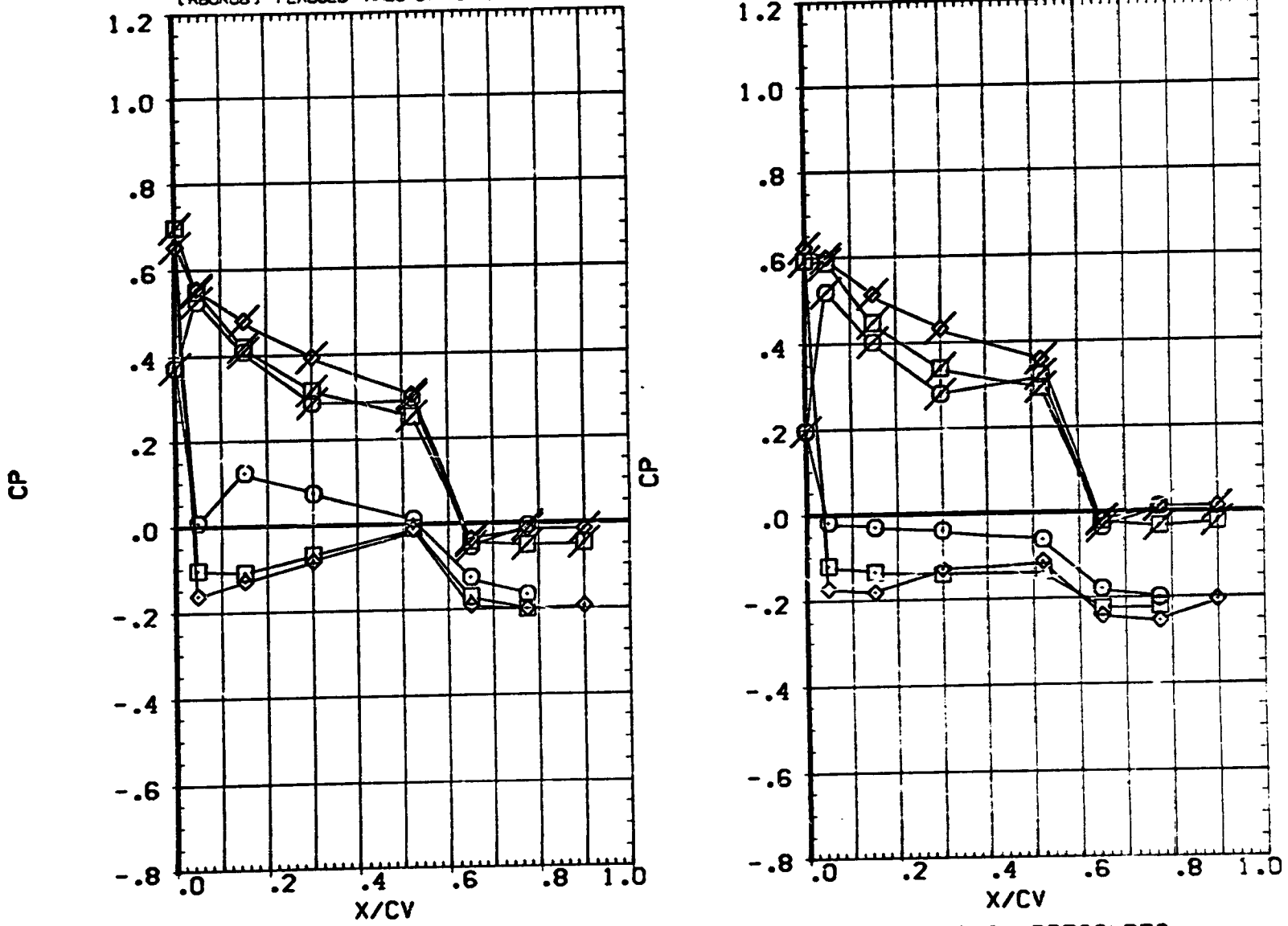
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	5.960	2.000
□	.316	8.010	
◇	.600		

PARAMETRIC VALUES

ALPHAT	-4.000	DRBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV03)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR08)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



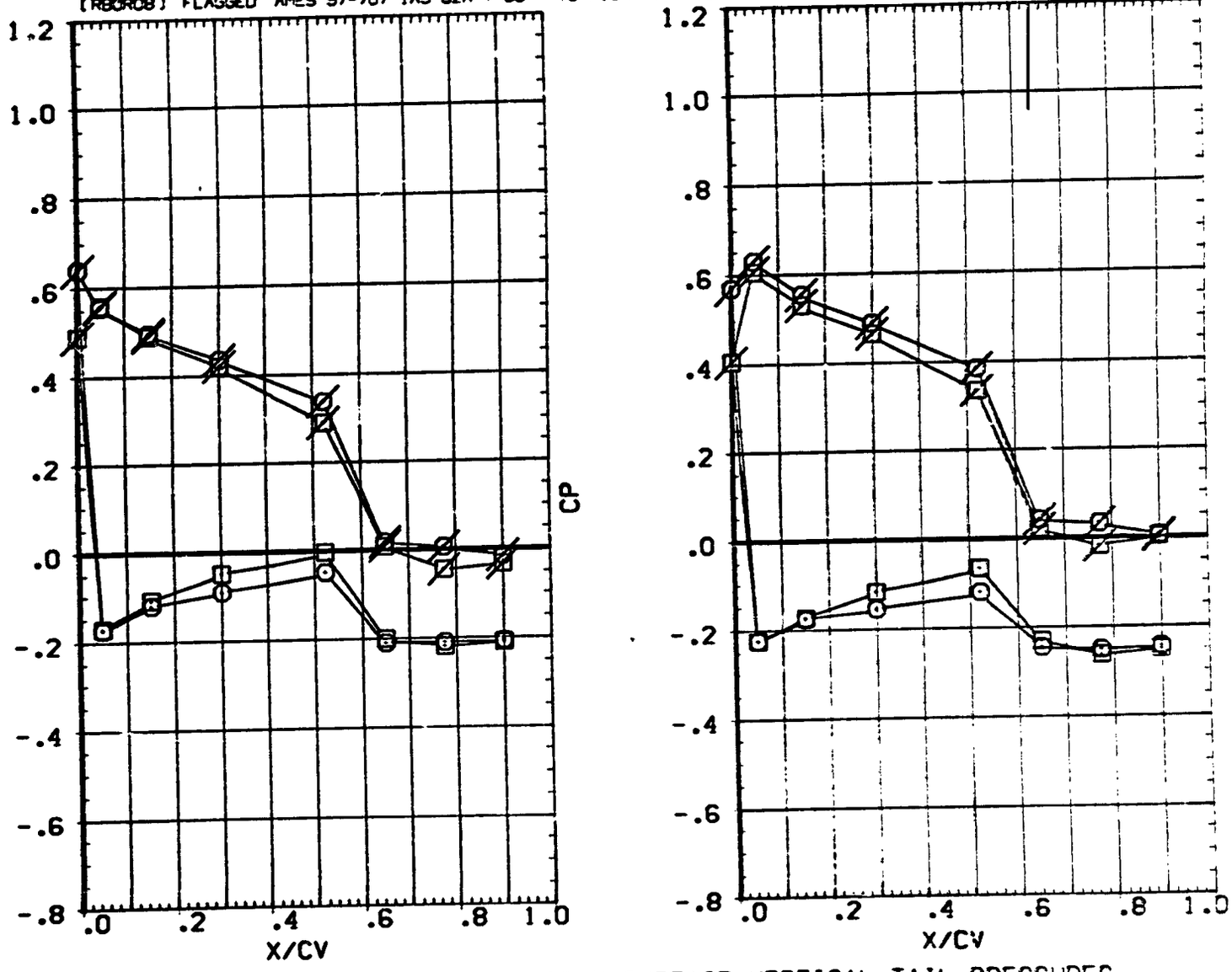
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	5.960	2.000
□	.925	8.010	

PARAMETRIC VALUES

ALPHAT	-4.000	DRBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOVC8)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBORO8)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



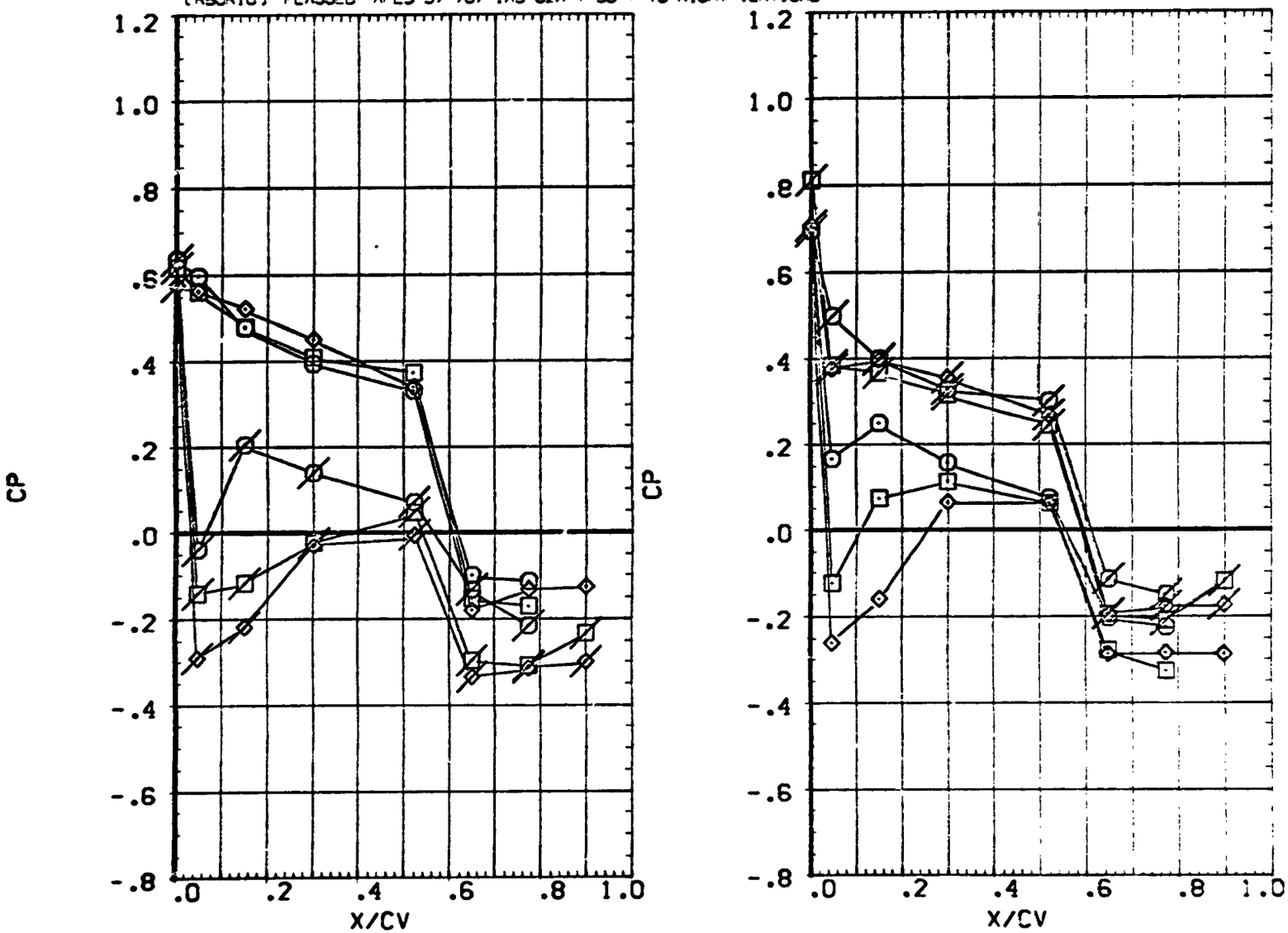
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-6.210	1.555
□	.316	3.650	
◇	.600		

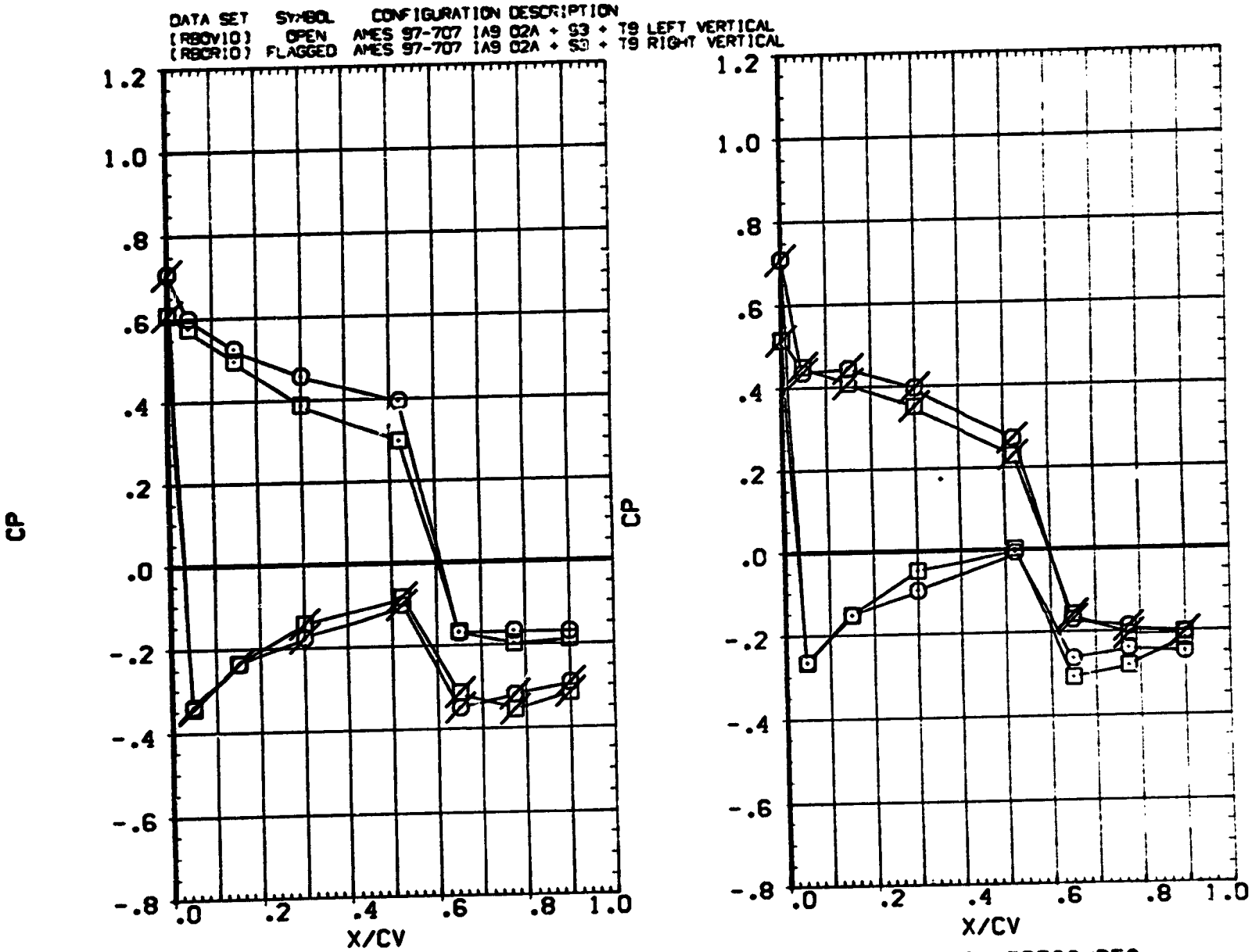
PARAMETRIC VALUES

ALPHAT	-8.000	SPRING	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(R80V10)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(R80R10)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



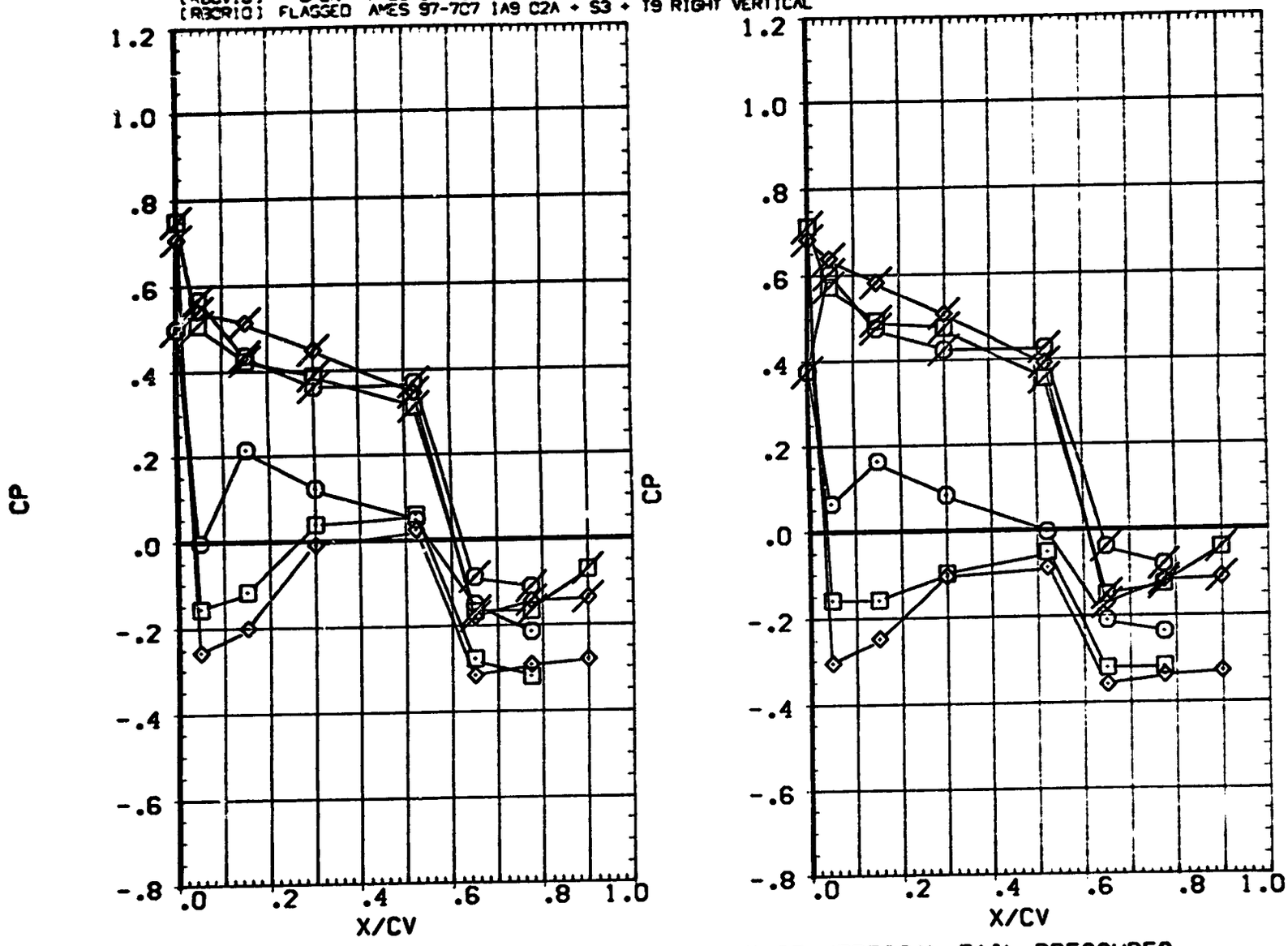
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	5.710	1.555
□	.316	7.770	
◇	.600		

PARAMETRIC VALUES

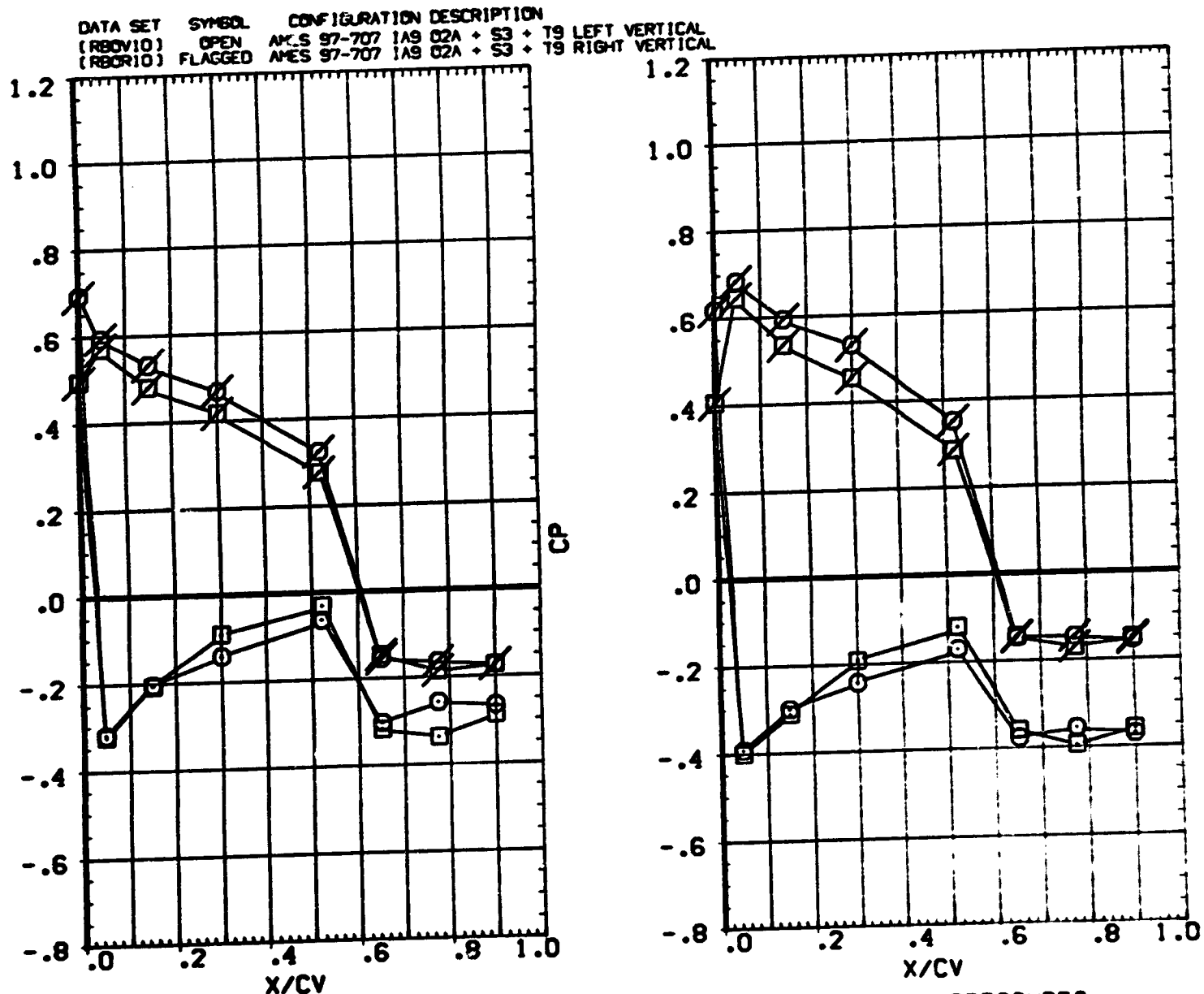
ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCV10)	OPEN	AMES 97-707 IA9 C2A + S3 + T9 LEFT VERTICAL
(R3CR10)	FLAGGED	AMES 97-707 IA9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

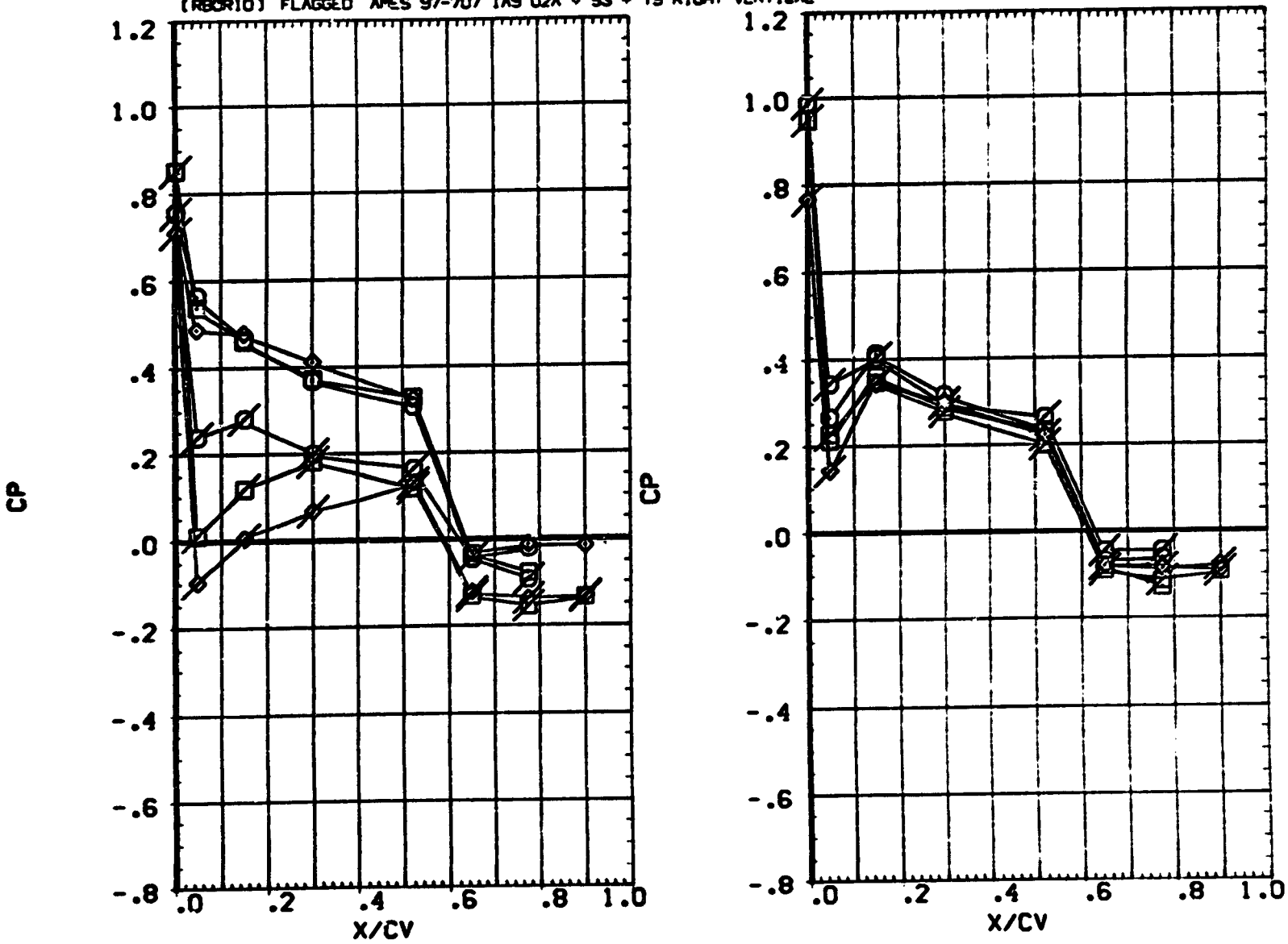


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

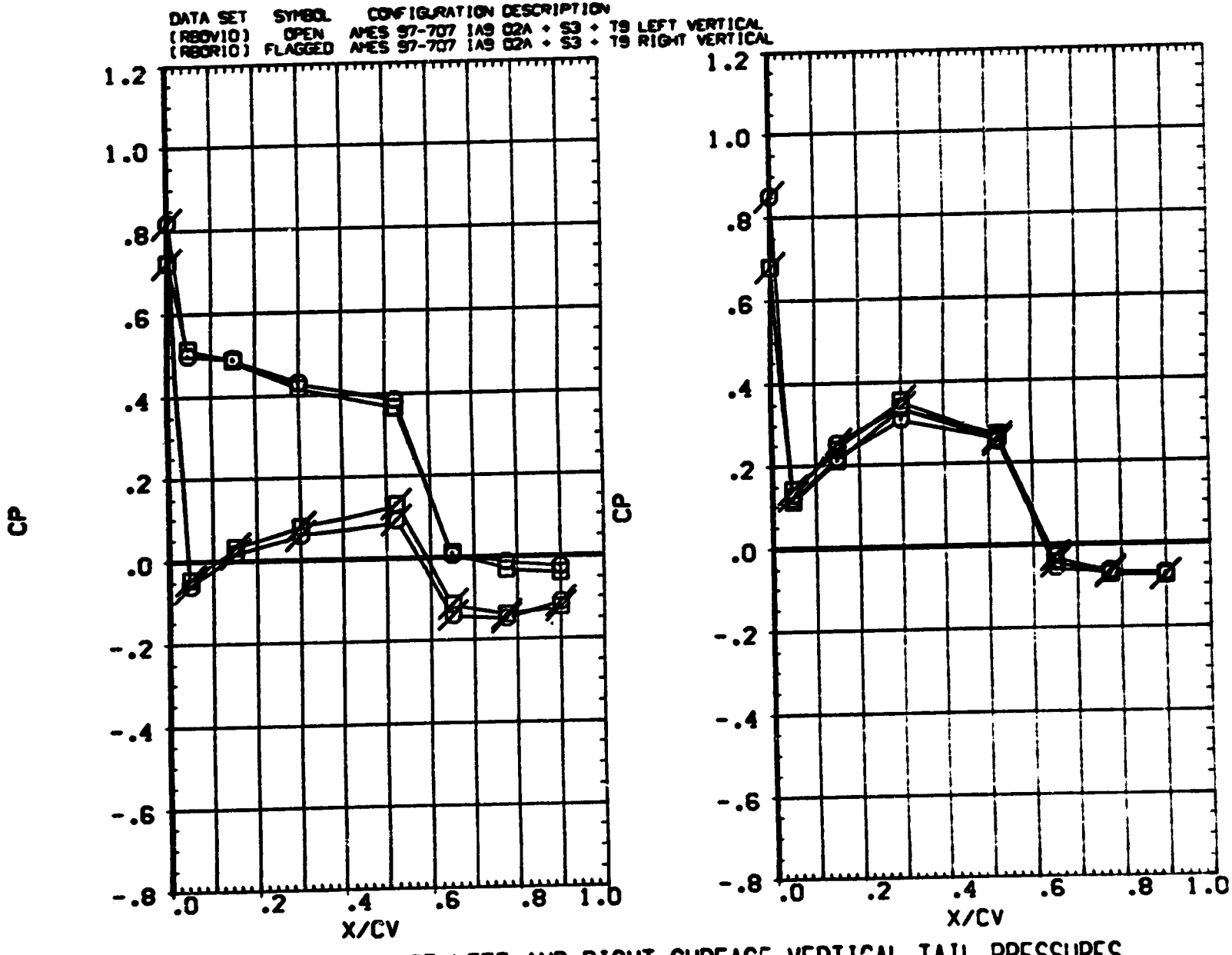
SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.280	2.000
□	.316	-.170	
◇	.600		

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.033
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV10)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR10)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

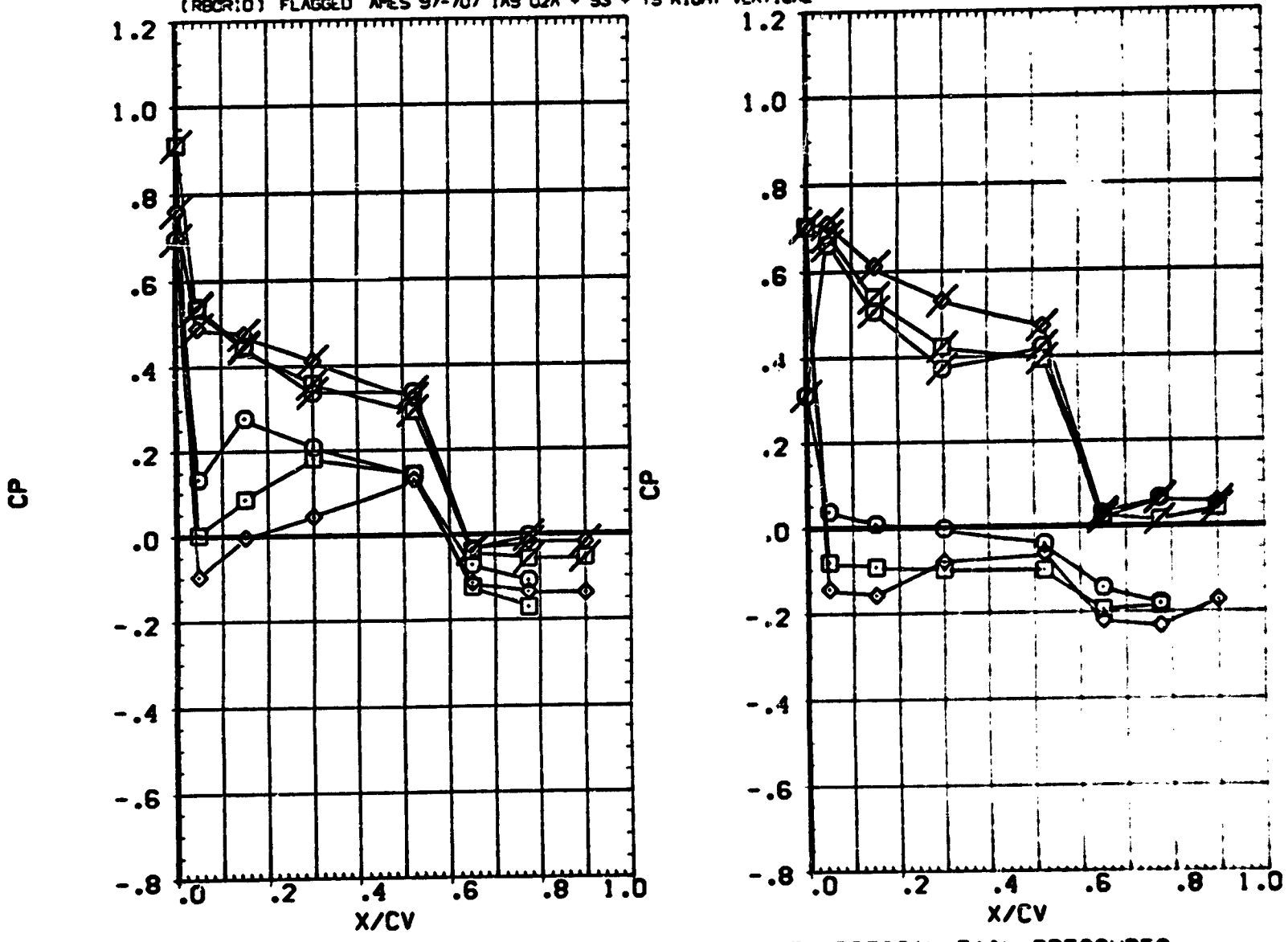


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

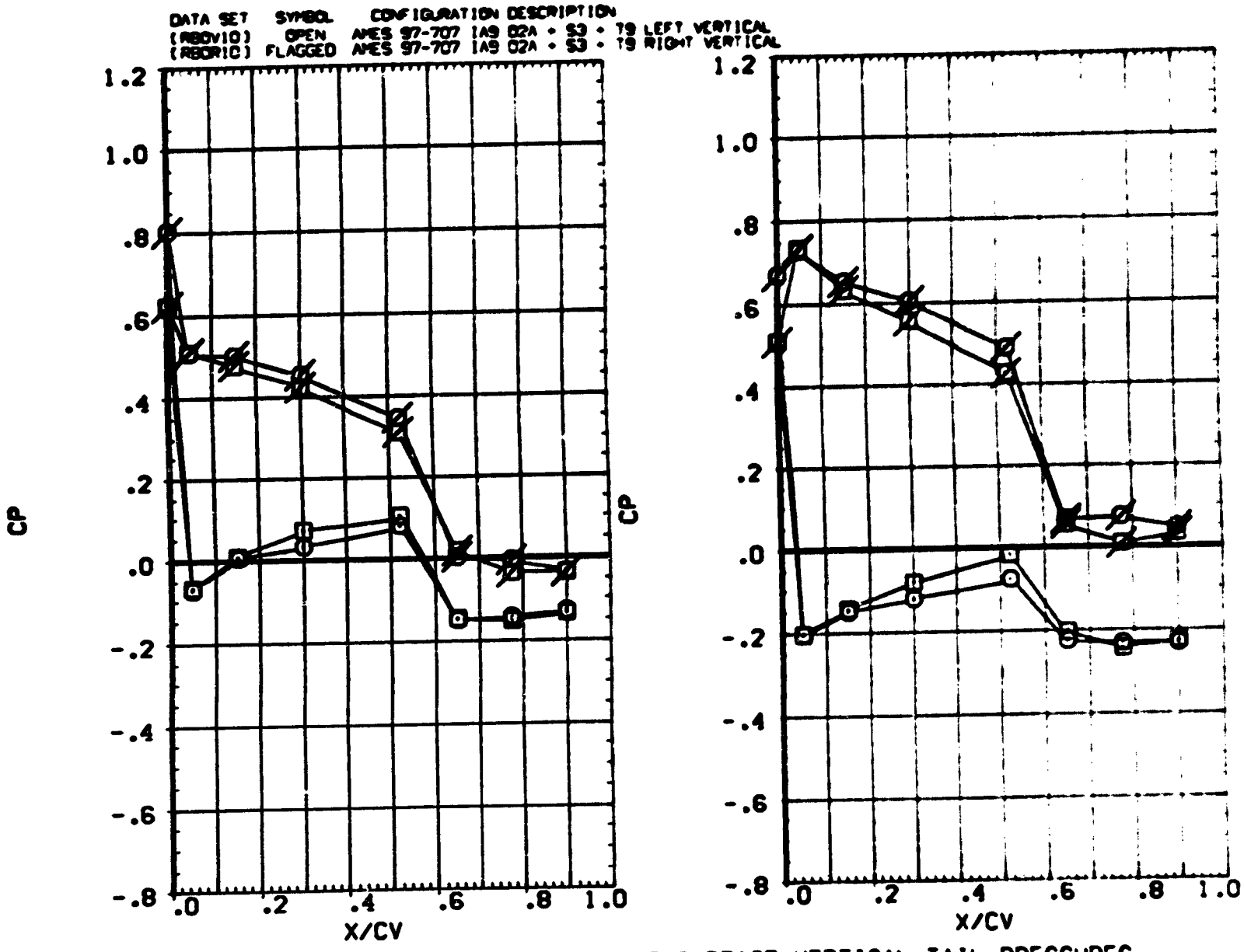
SYMBOL	Z/BV	BETAT	MACH
○	.158	3.940	2.000
□	.316	8.050	
◇	.600		

ALPHAT	-8.000	SPOINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCV10)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBCR10)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



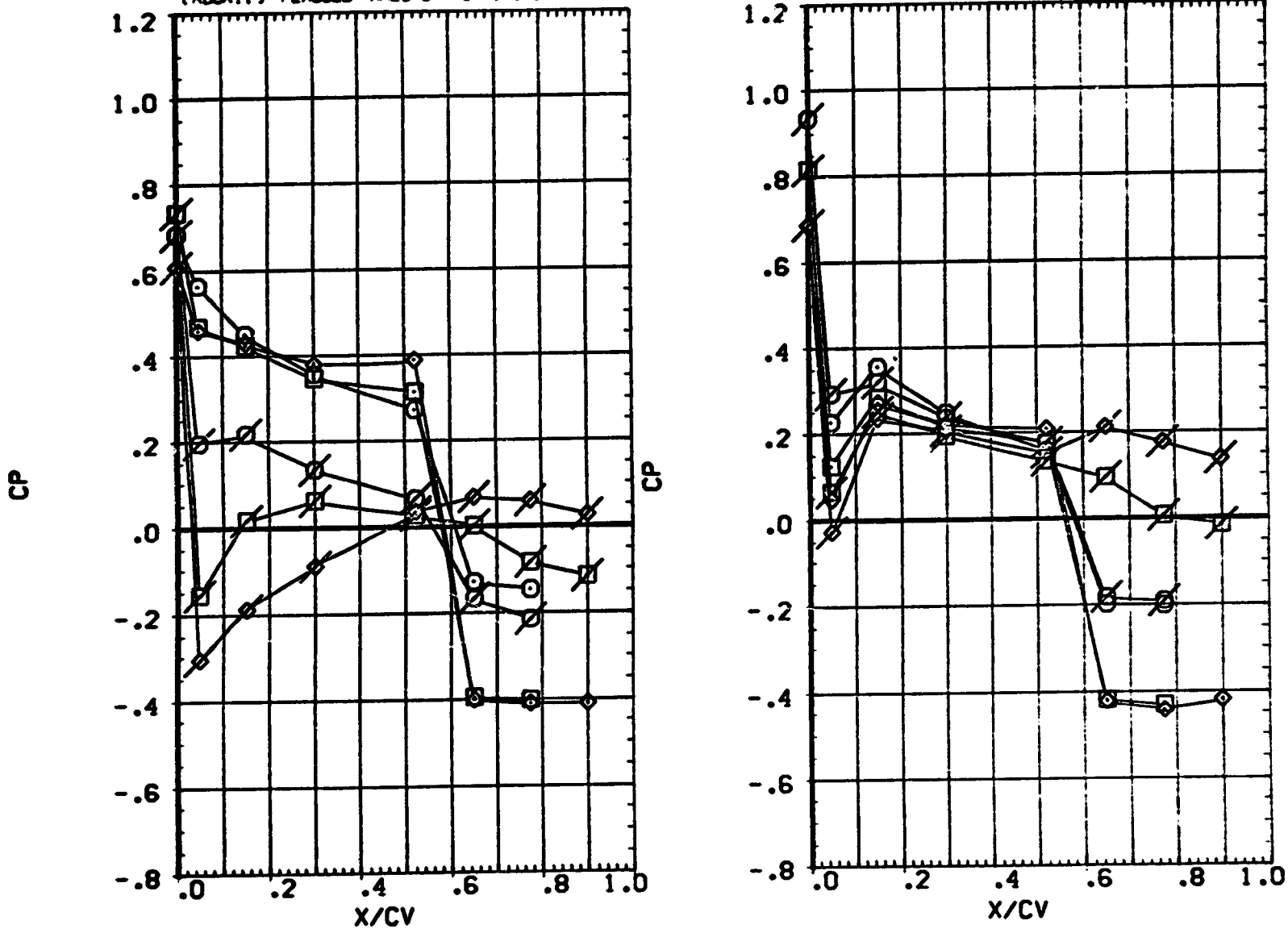
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.310	1.555
□	.316	-.180	
◇	.600		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ABOVII)	OPEN	AMES 97-707 IA9 D2A + S3 + T9 LEFT VERTICAL
(RBORII)	FLAGGED	AMES 97-707 IA9 D2A + S3 + T9 RIGHT VERTICAL



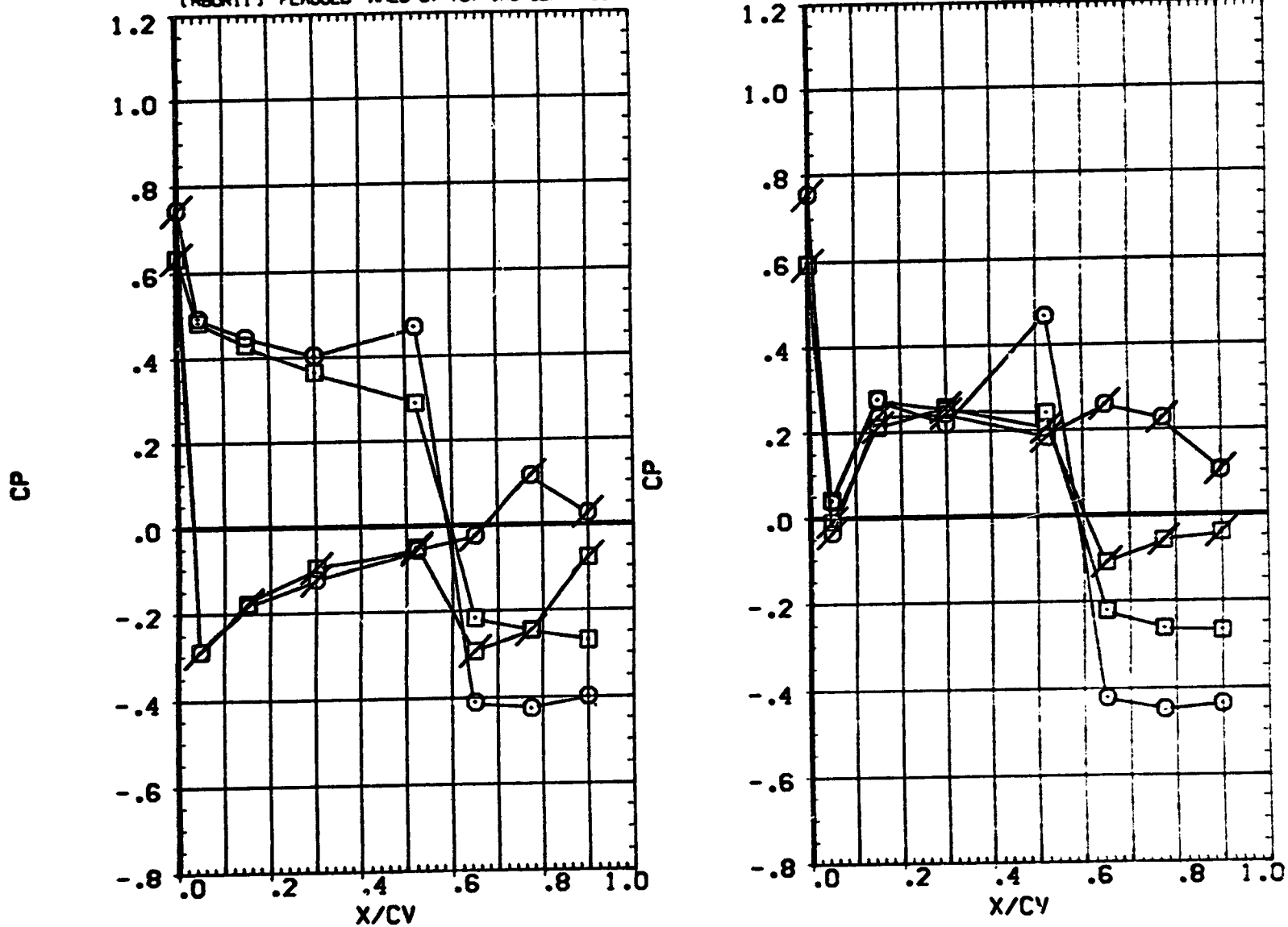
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-4.310	1.565
□	.925	-.180	

PARAMETRIC VALUES

ALPHAT	-8.000	DRBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV11)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR11)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



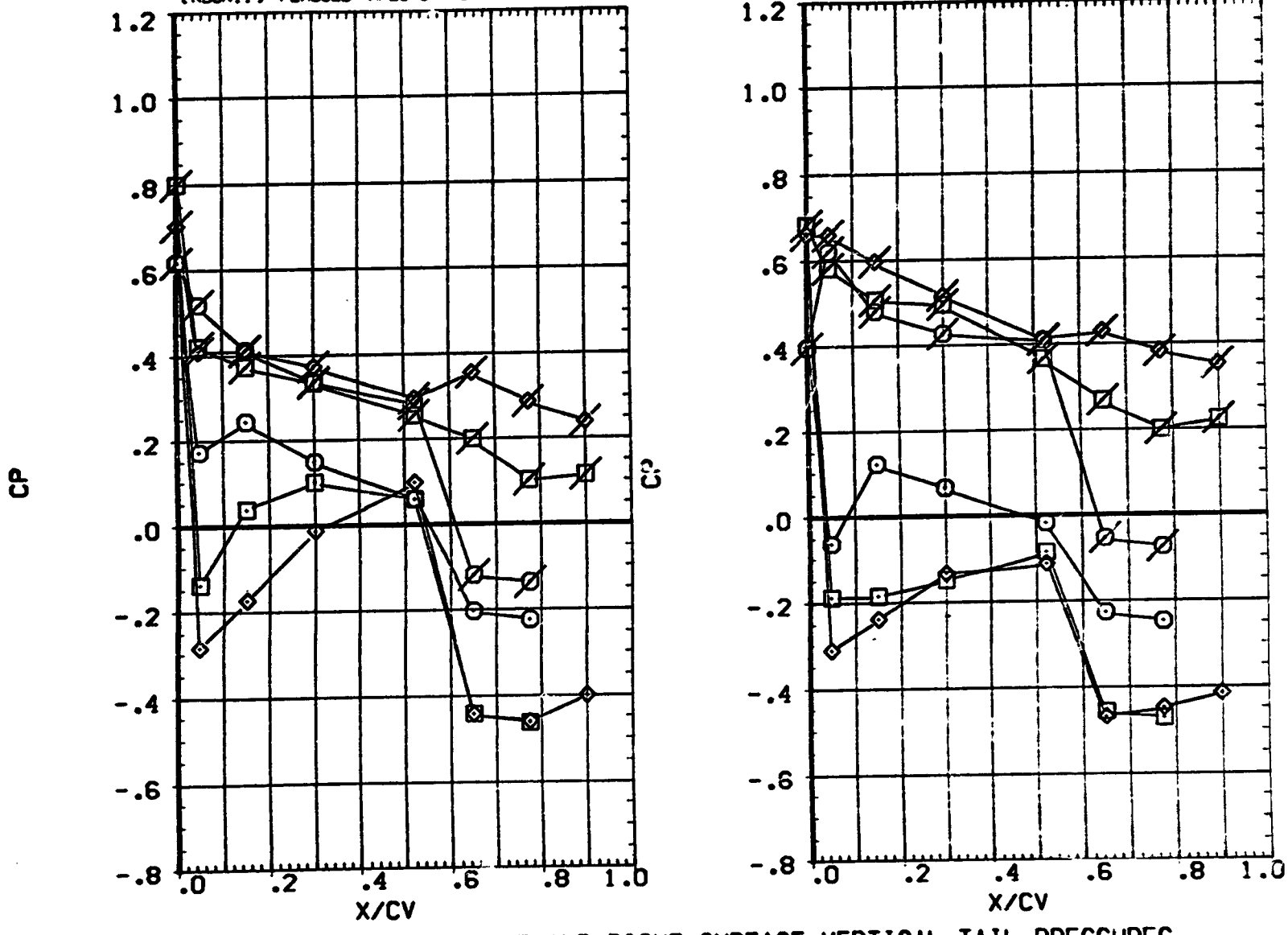
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	3.940	1.555
□	.316	8.060	
◇	.600		

PARAMETRIC VALUES

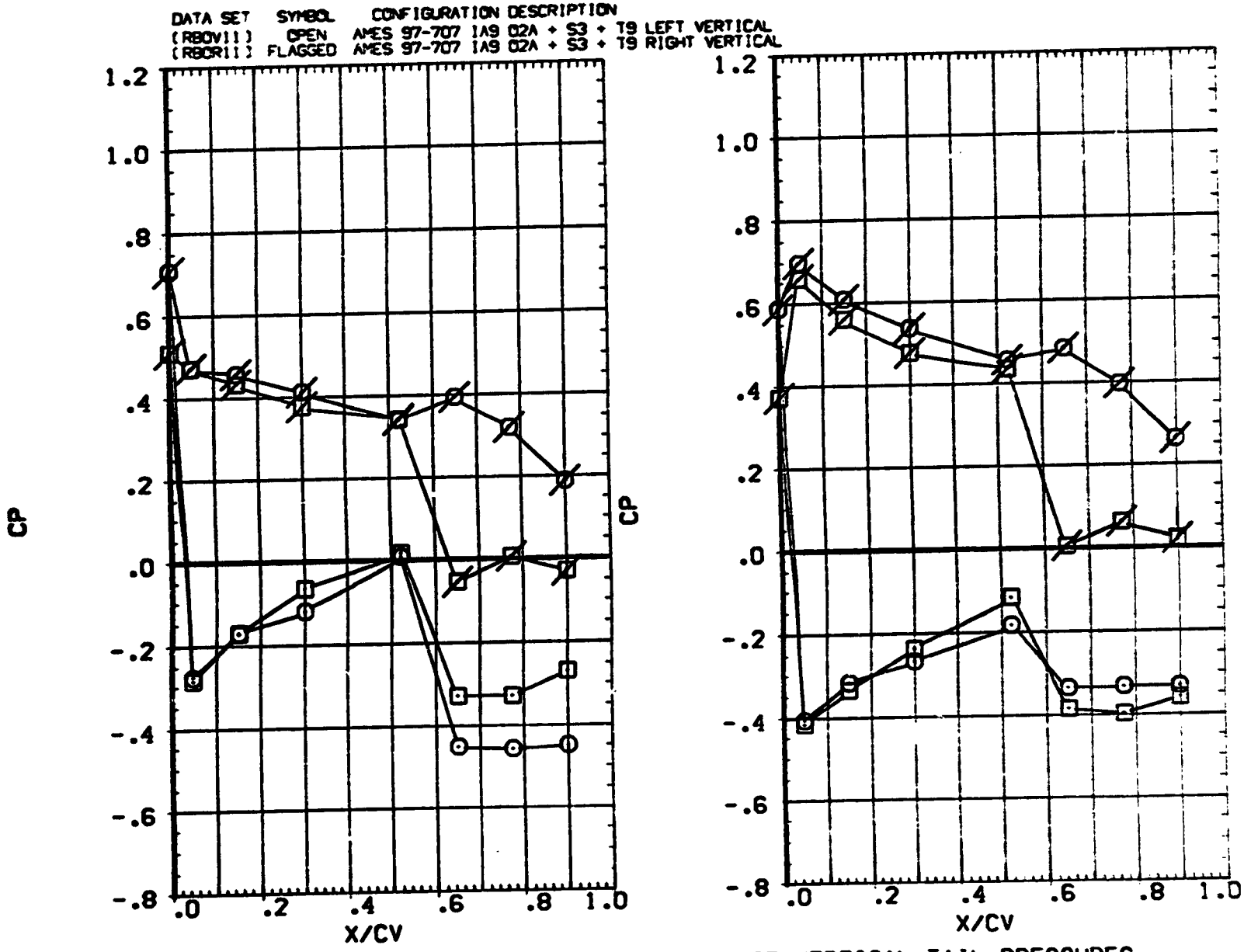
ALPHAT	-8.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV11)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR11)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

○	.840	3.940	1.550	RUDDER	-15.000	ELEVON	.000
□	.925	8.060		RUDFLR	.000		



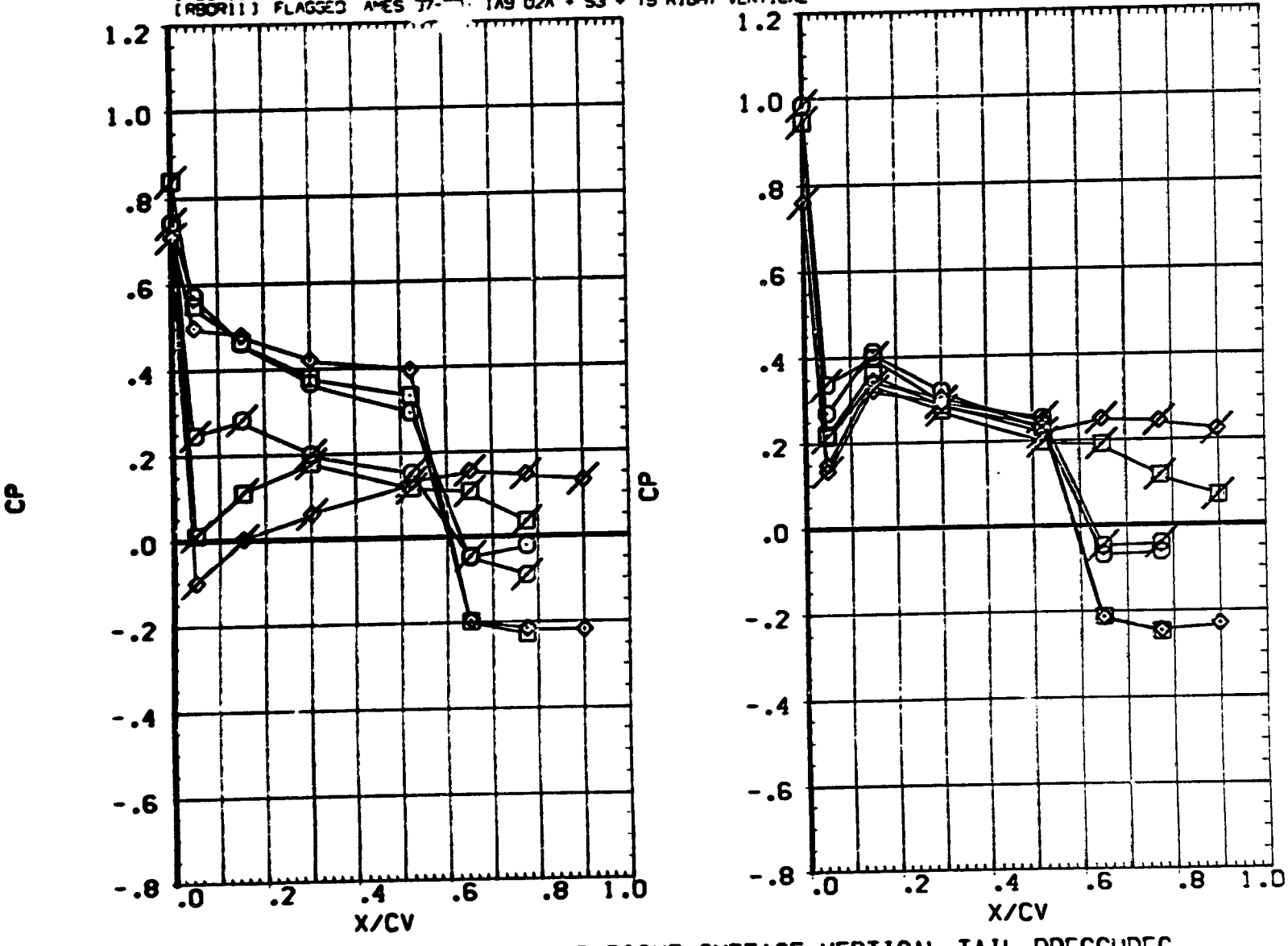
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.290	2.000
□	.316	-.180	
◇	.600		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBCV11) OPEN AMES 97-70 IA9 02A + S3 + T9 LEFT VERTICAL
(RBCR11) FLAGGED AMES 77- IA9 02A + S3 + T9 RIGHT VERTICAL

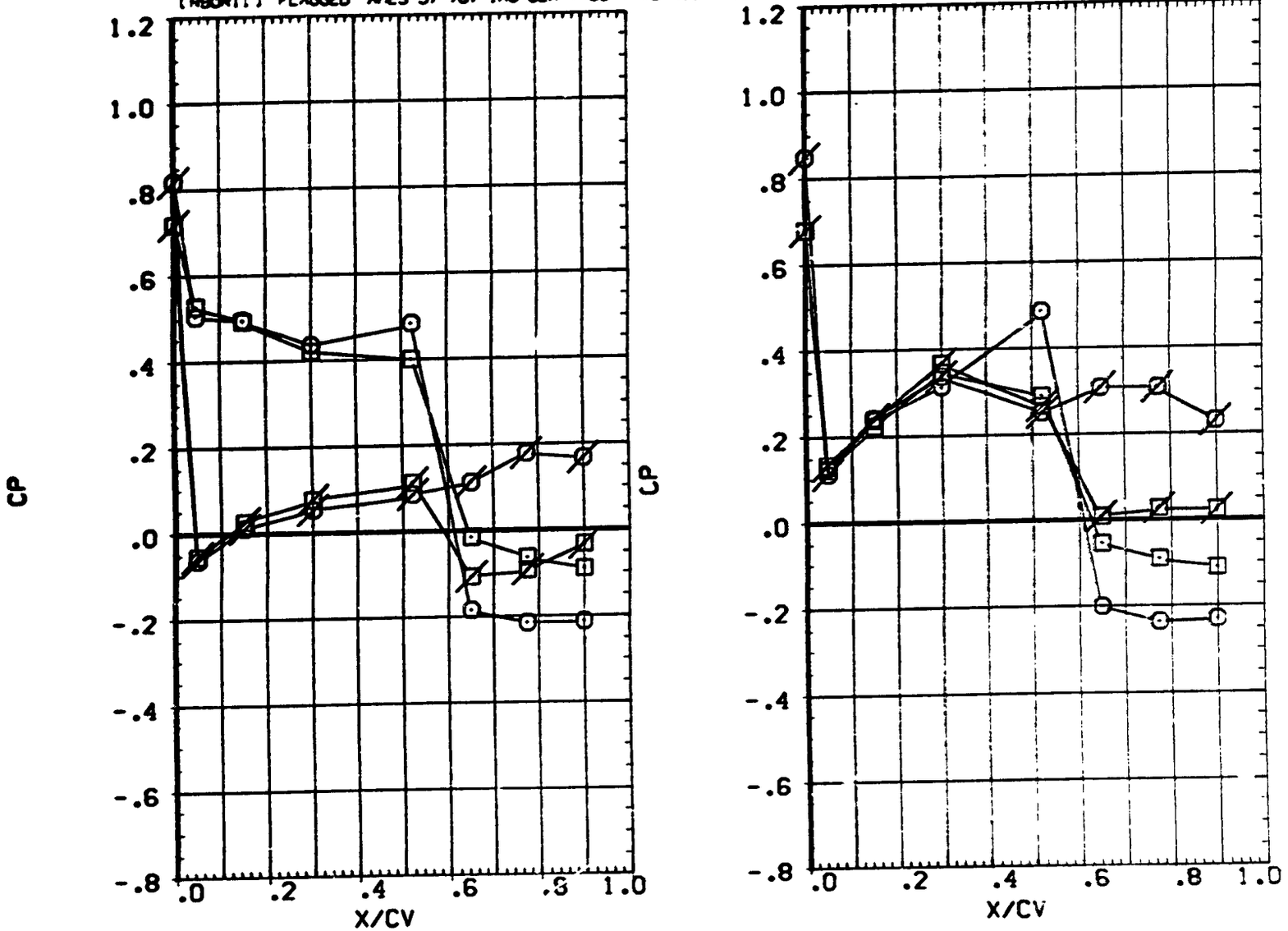


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

	.840	-4.290	2.000
	.925	-.180	

RUDDER	-15.000	ELEVEN	.000
	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBOVII) OPEN AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBORII) FLAGGED AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL

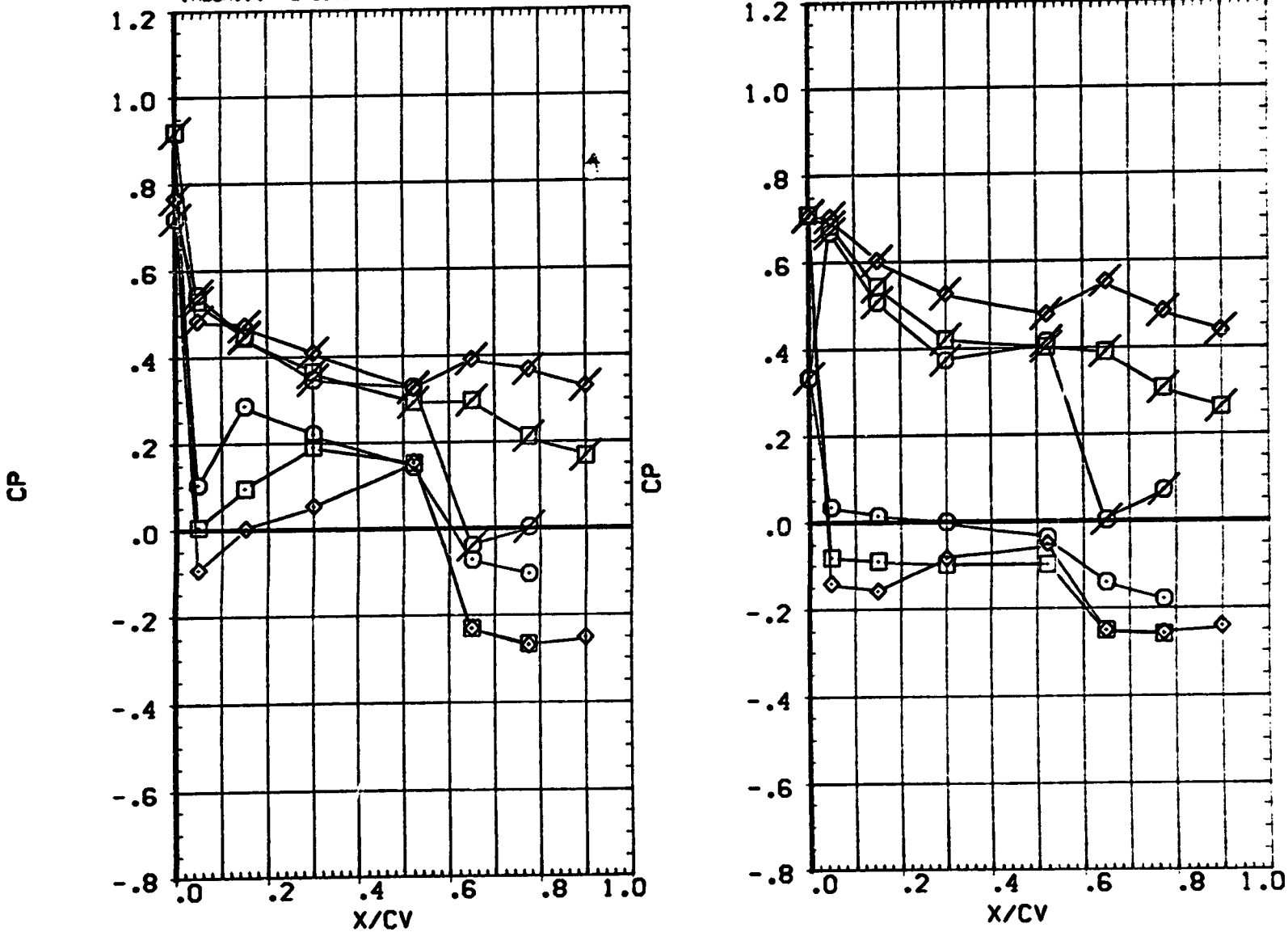


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

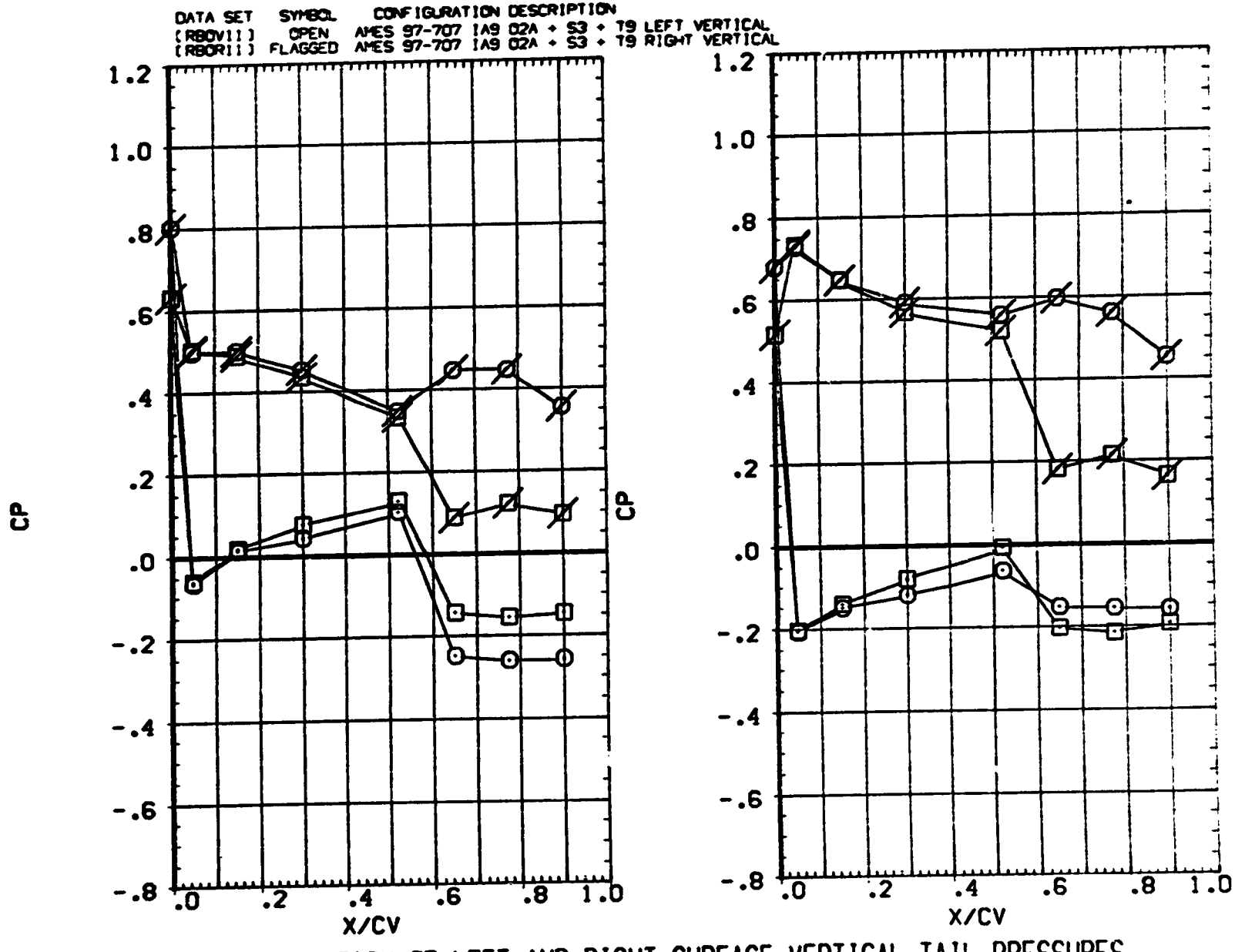
○	.158	3.930	2.000
□	.316	8.040	
◇	.600		

ALPHAT	-8.000	DUBYC	.3
RUDDER	-15.000	ELEVCN	.000
RUDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBOV1) OPEN AMES 97-707 IA9 D2A + S3 + T9 LEFT VERTICAL
(RBOR1) FLAGGED AMES 97-707 IA9 D2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



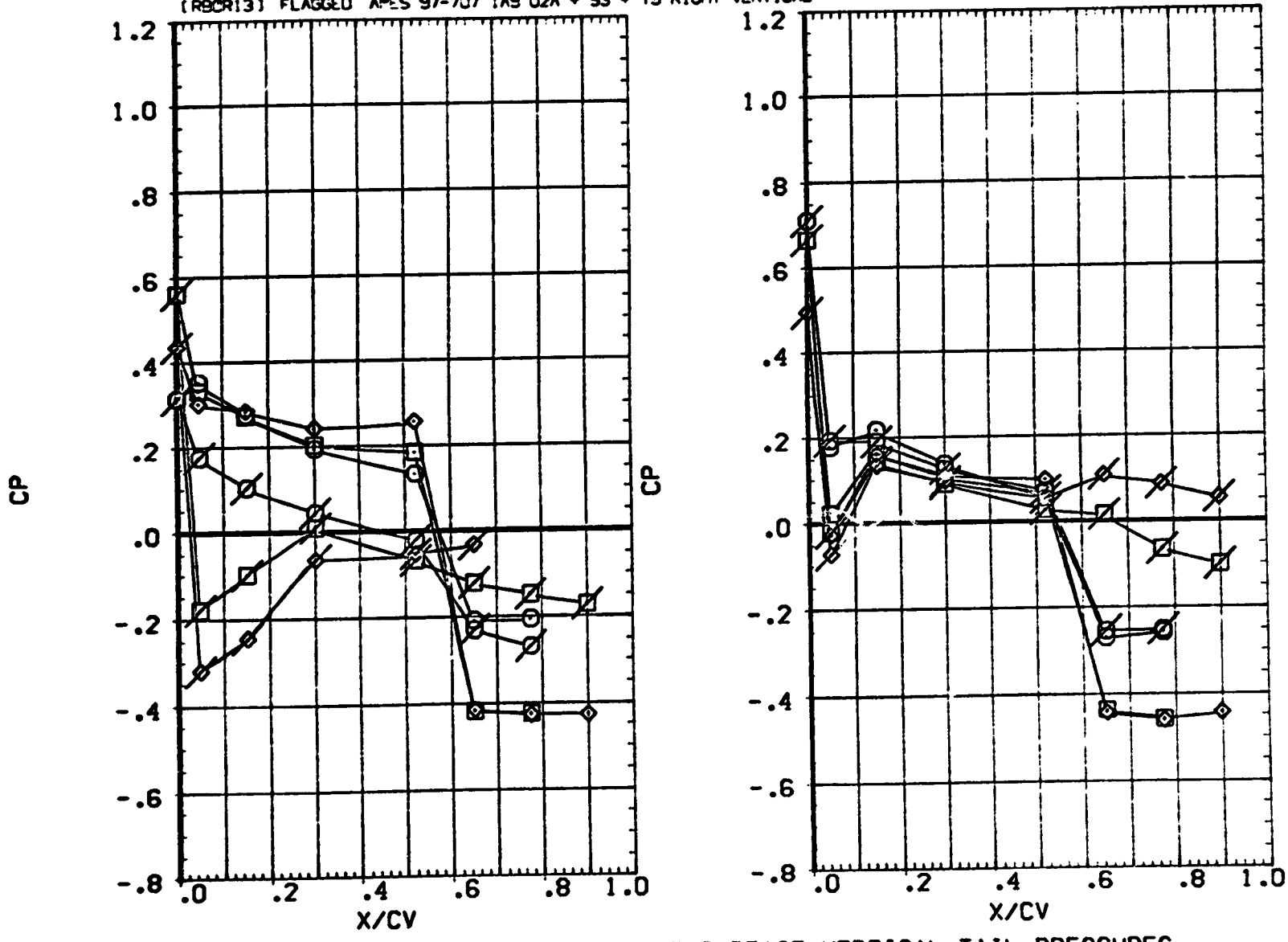
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.240	1.555
□	.316	-.140	
◇	.600		

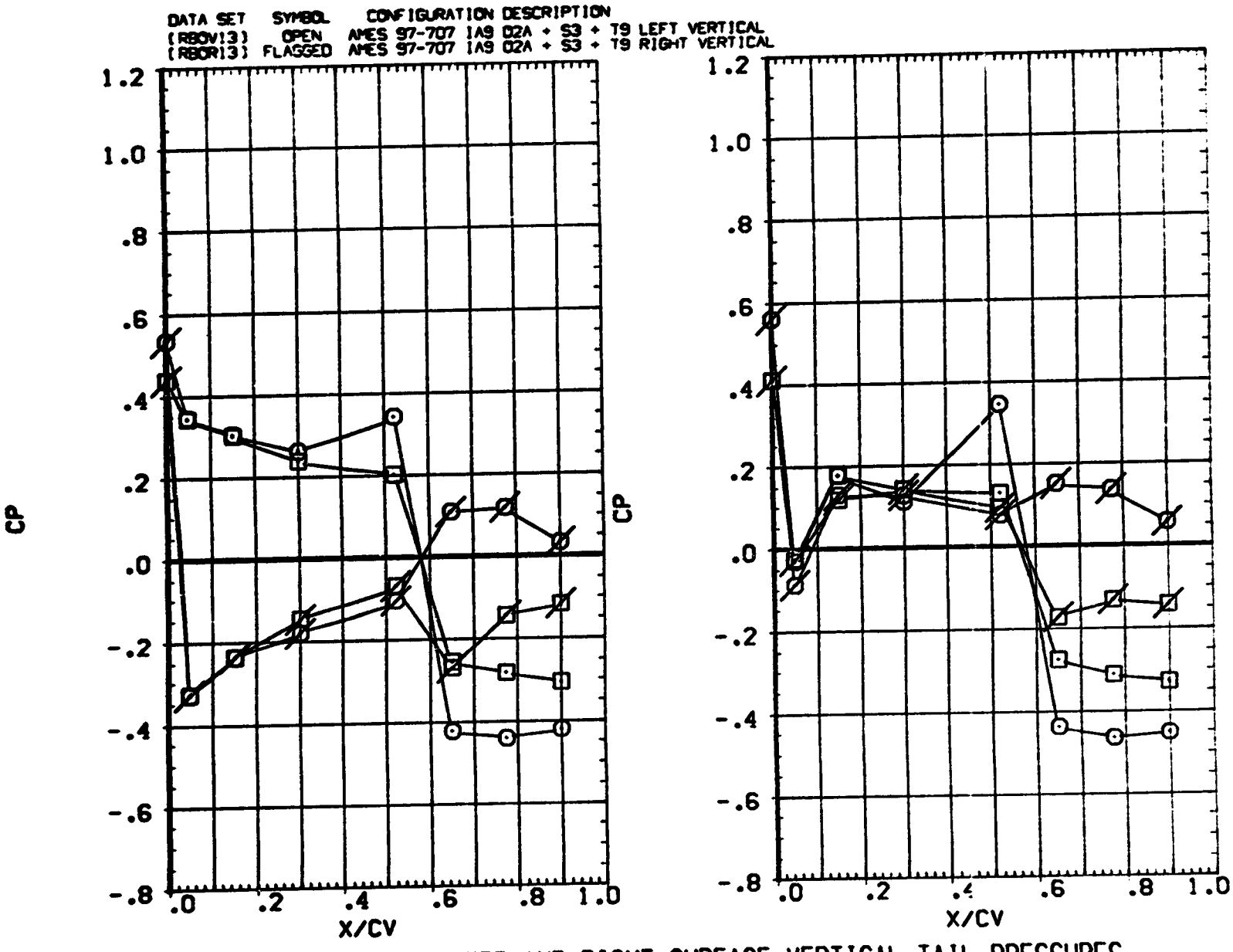
PARAMETRIC VALUES

ALPHAT	.000	CRBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCV13)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBCR13)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



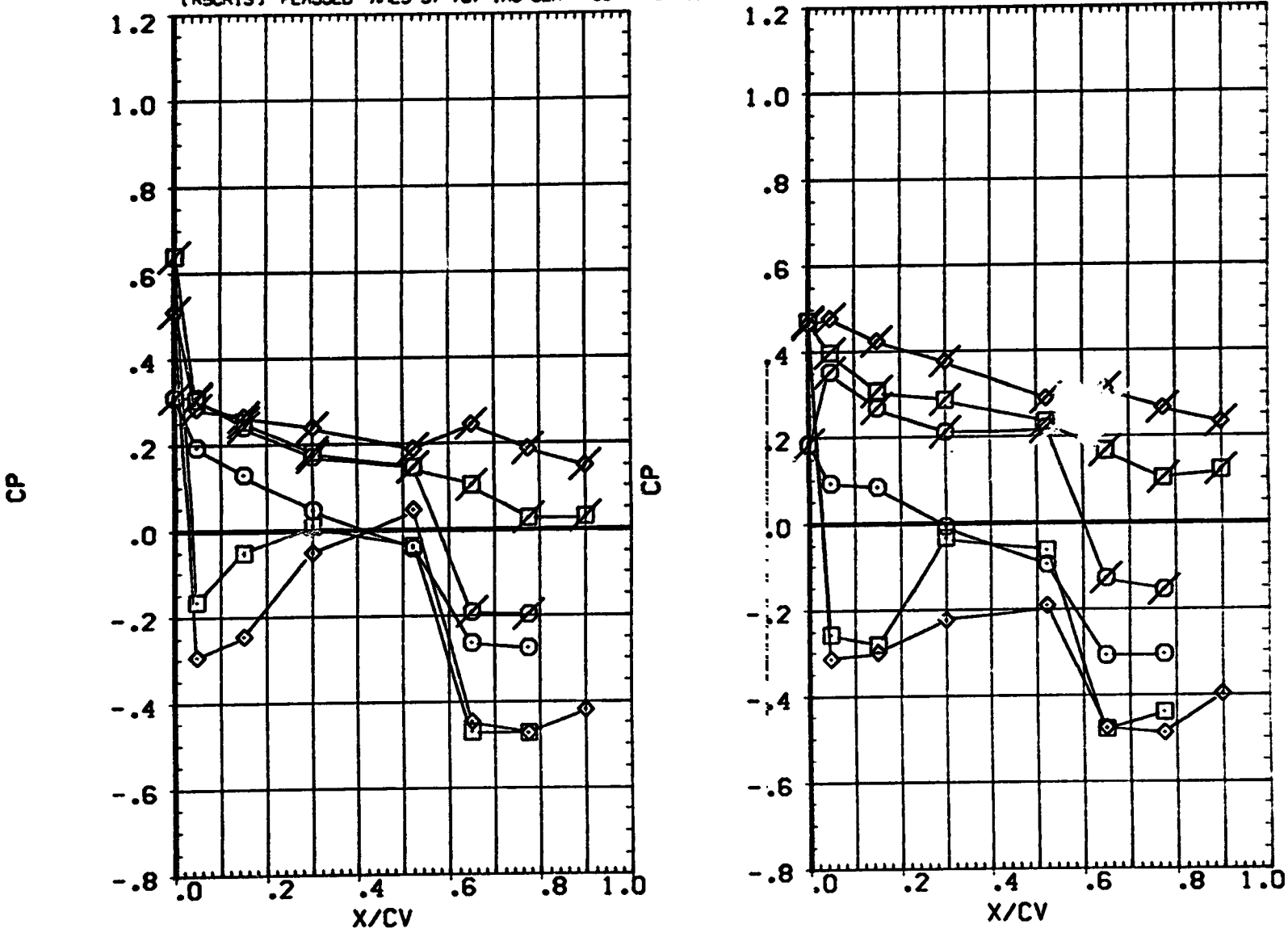
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	3.940	1.555
□	.316	8.030	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

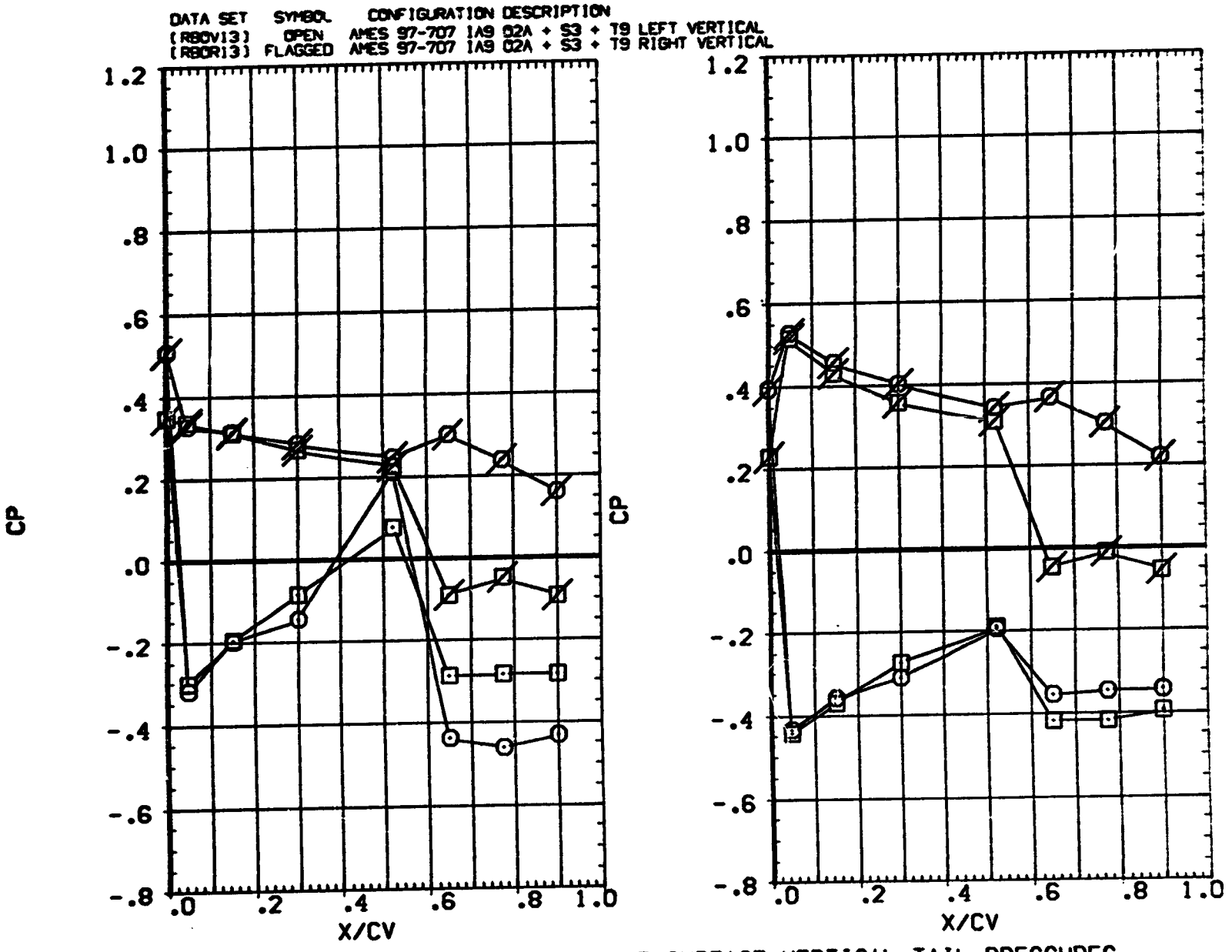
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV13)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBCR13)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

○	.840	3.940	1.555
□	.925	8.030	

RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



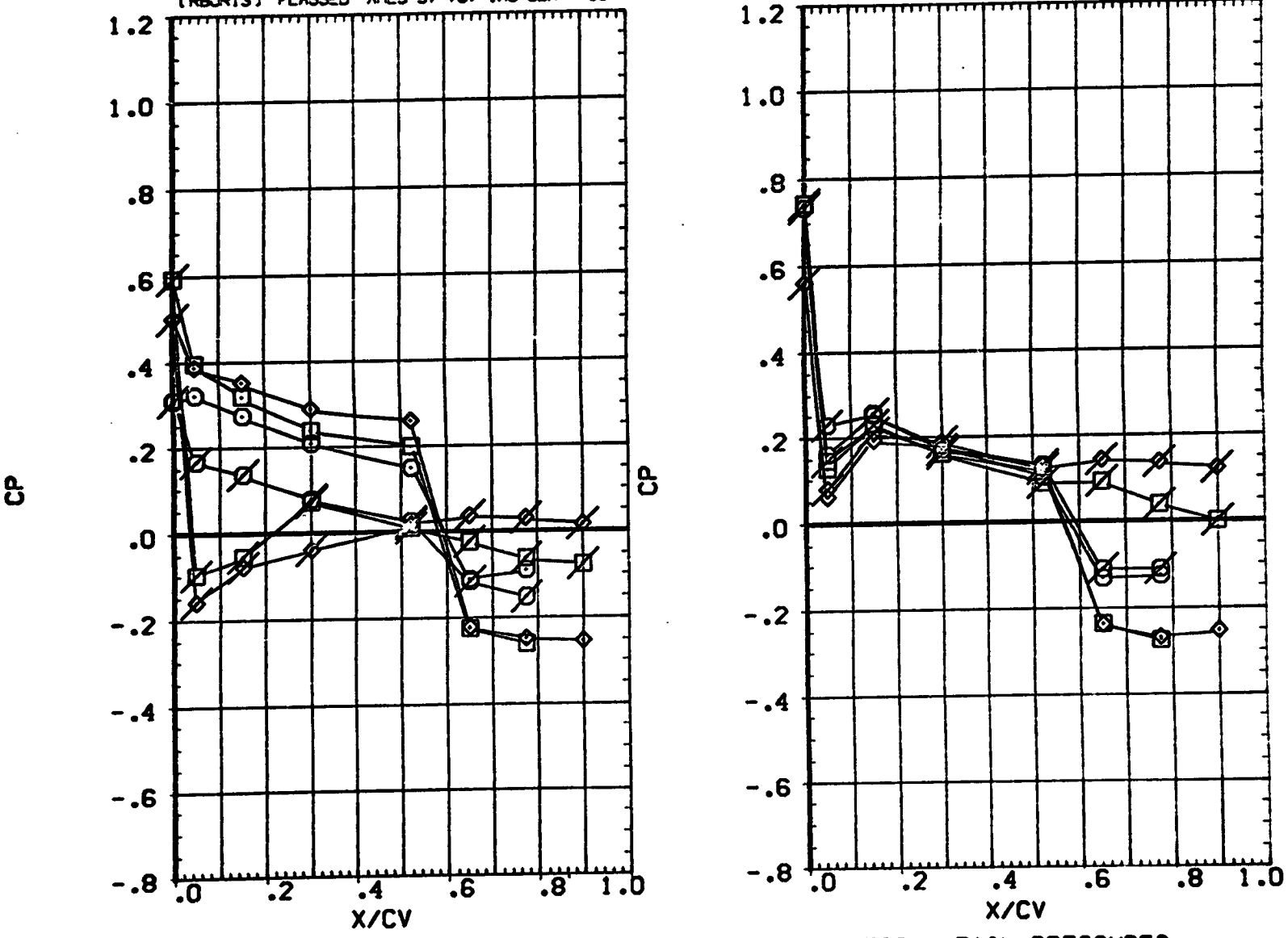
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.220	2.000
□	.316	-.140	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV13)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR13)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



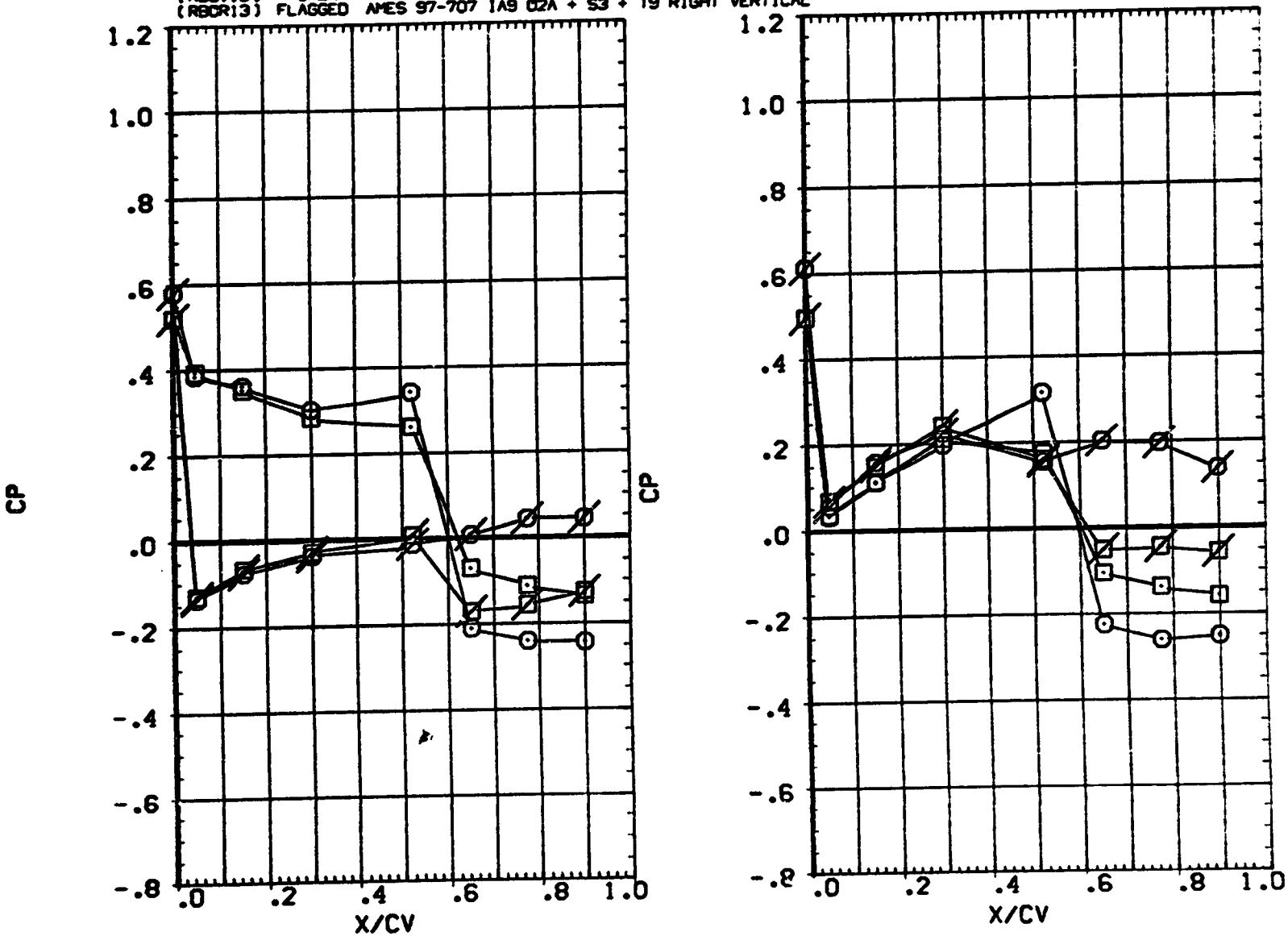
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-4.220	2.000
□	.925	-.140	

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBDV13)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBDR13)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



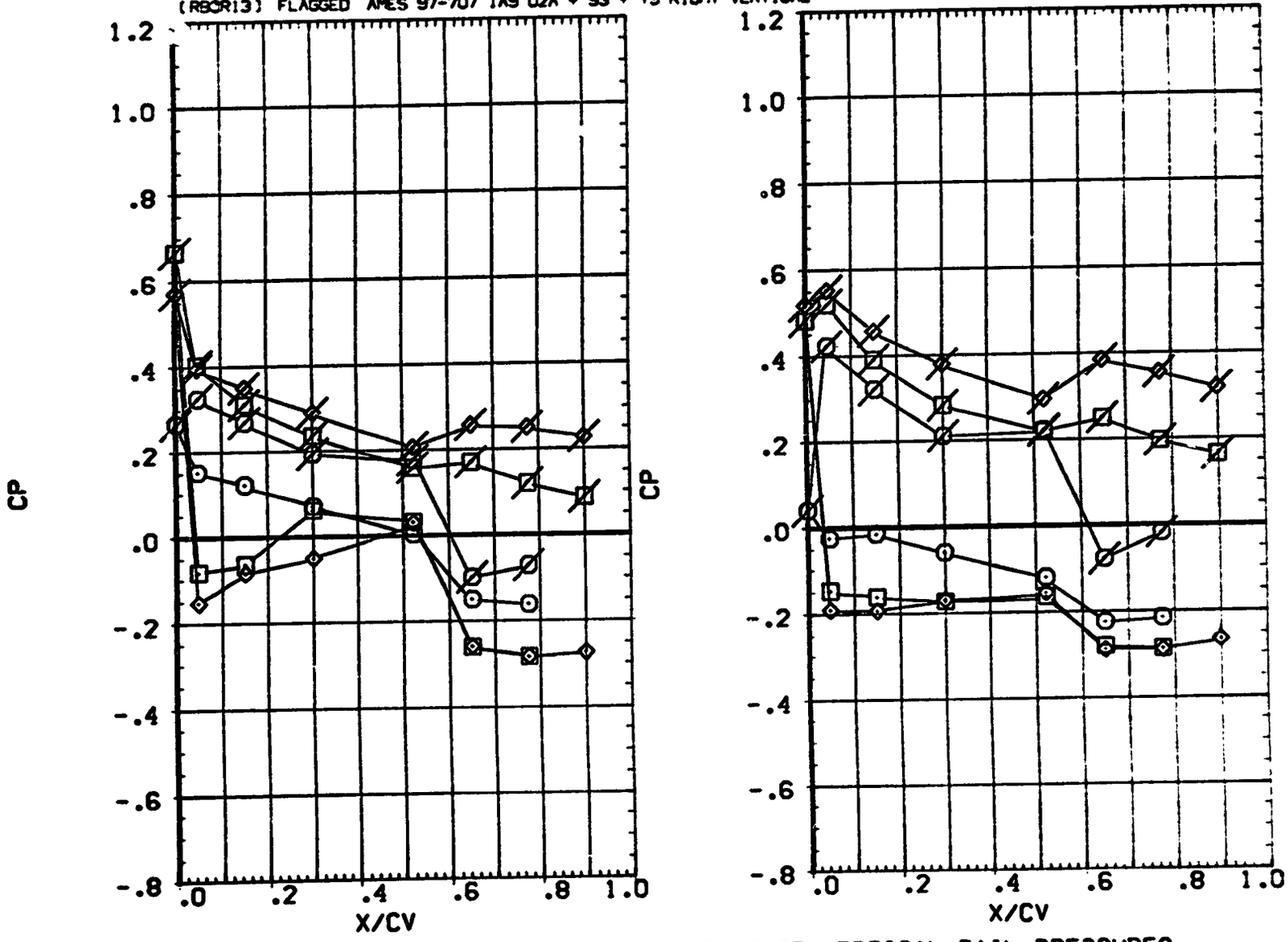
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	3.930	2.000
□	.316	8.020	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVCN	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCV13)	OPEN	AMES 97-707 IA9 D2A + S3 + T9 LEFT VERTICAL
(RBCR13)	FLAGGED	AMES 97-707 IA9 D2A + S3 + T9 RIGHT VERTICAL



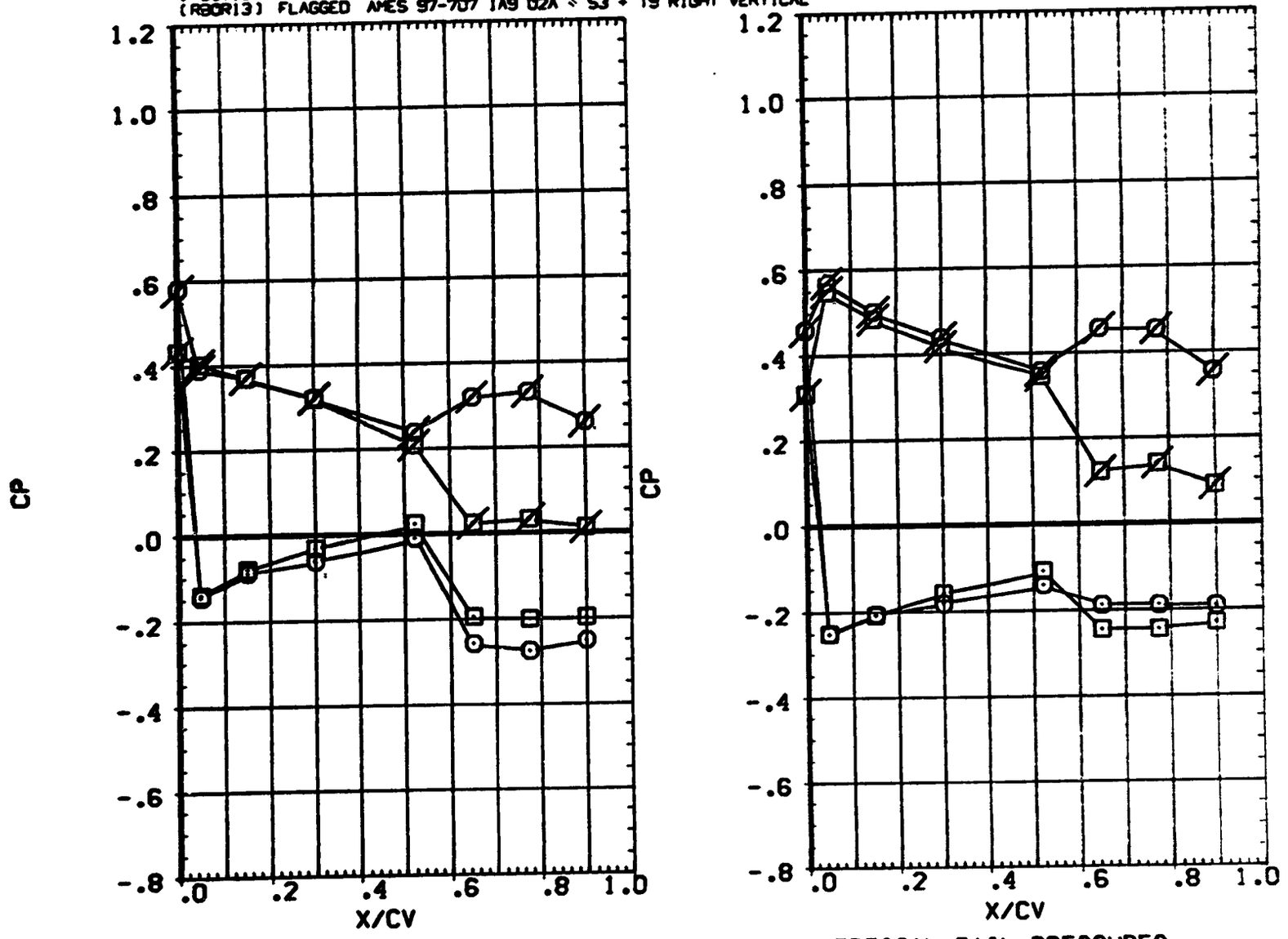
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	3.930	2.000
□	.925	8.020	

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV13)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR13)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



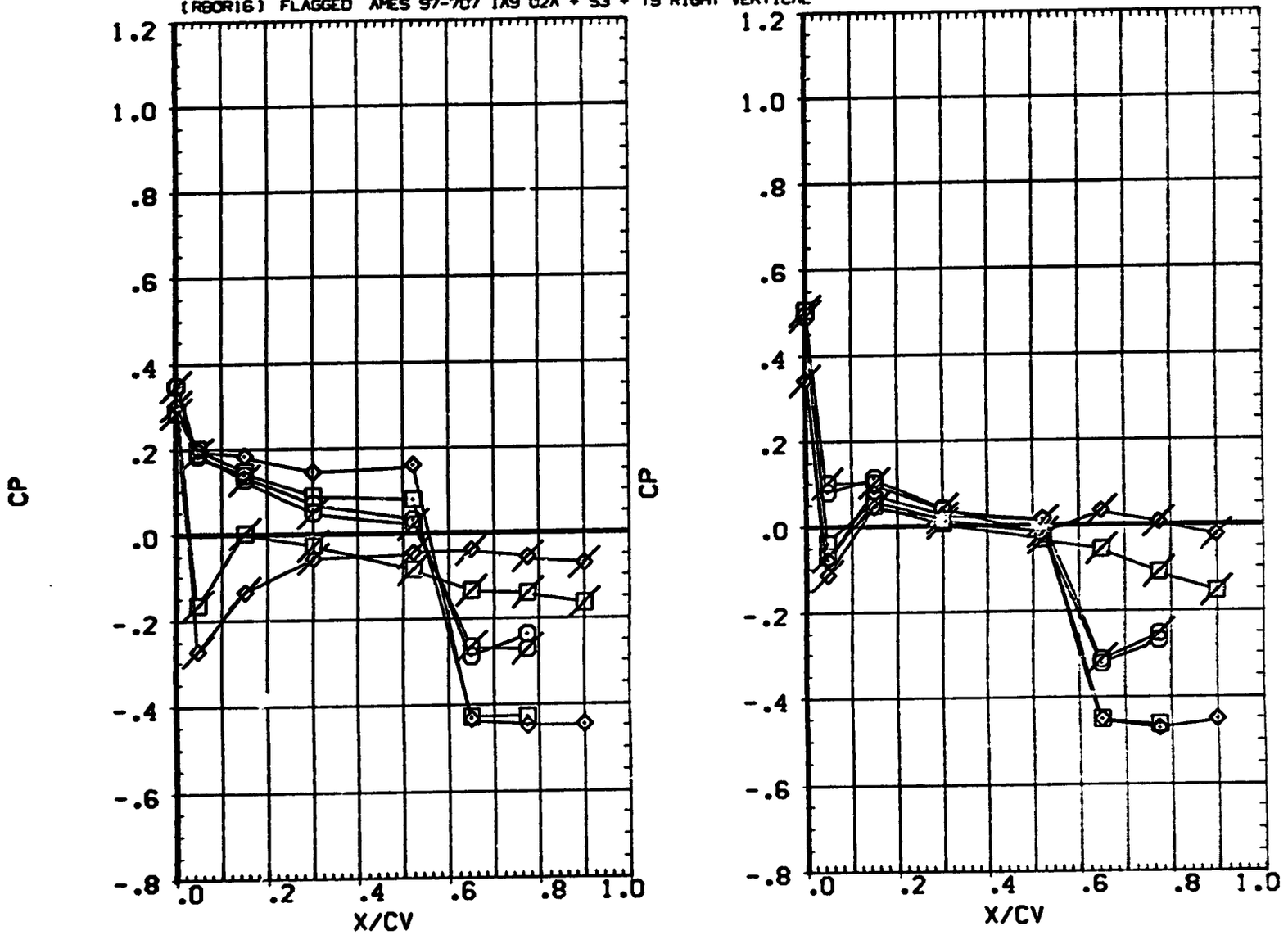
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.240	1.555
□	.316	-.110	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV16)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR16)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



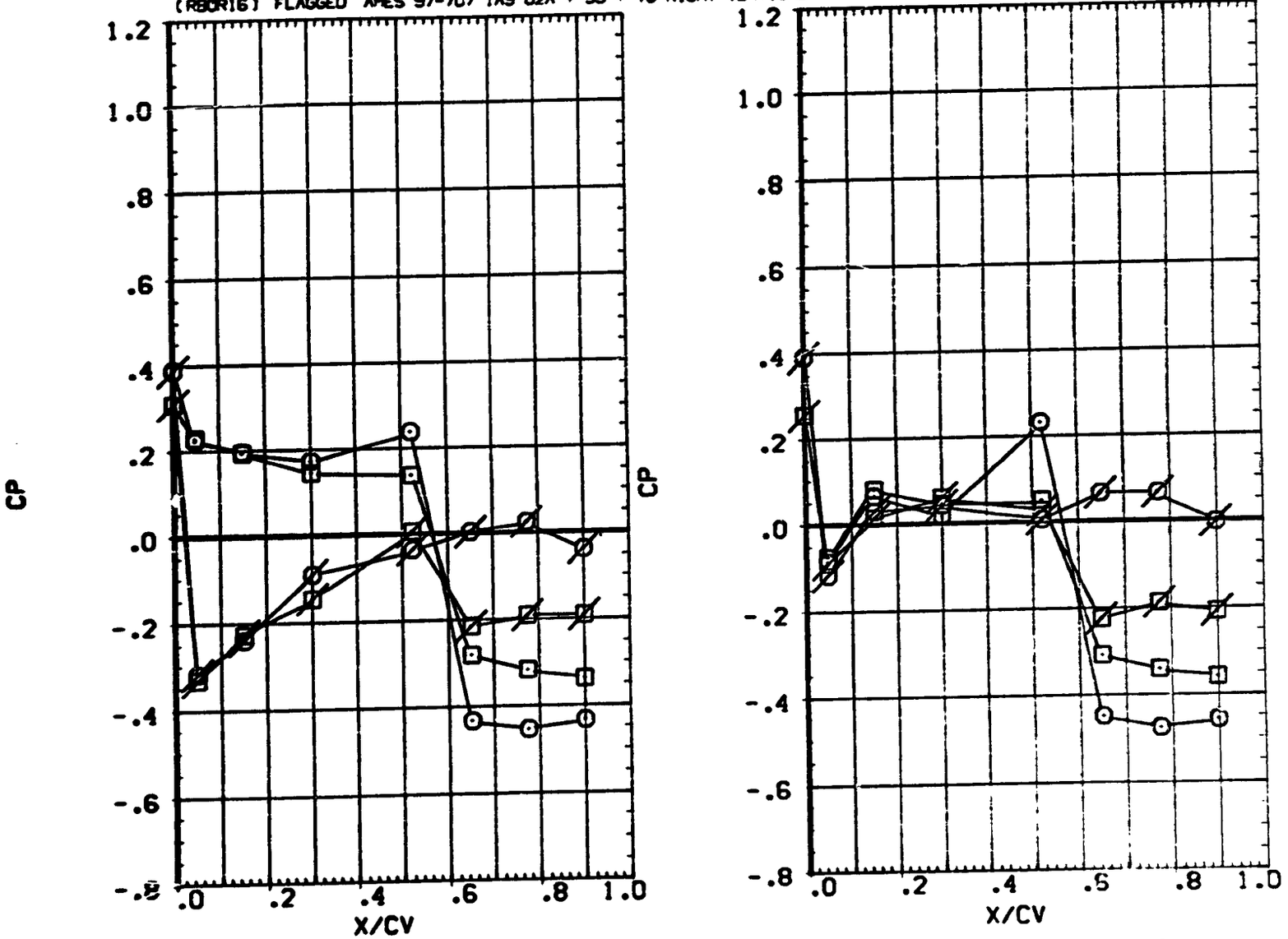
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-4.240	1.555
□	.925	-.110	

PARAMETRIC VALUES

ALPHAT	8.000	[illegible]INC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBOV16) OPEN AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR16) FLAGGED AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



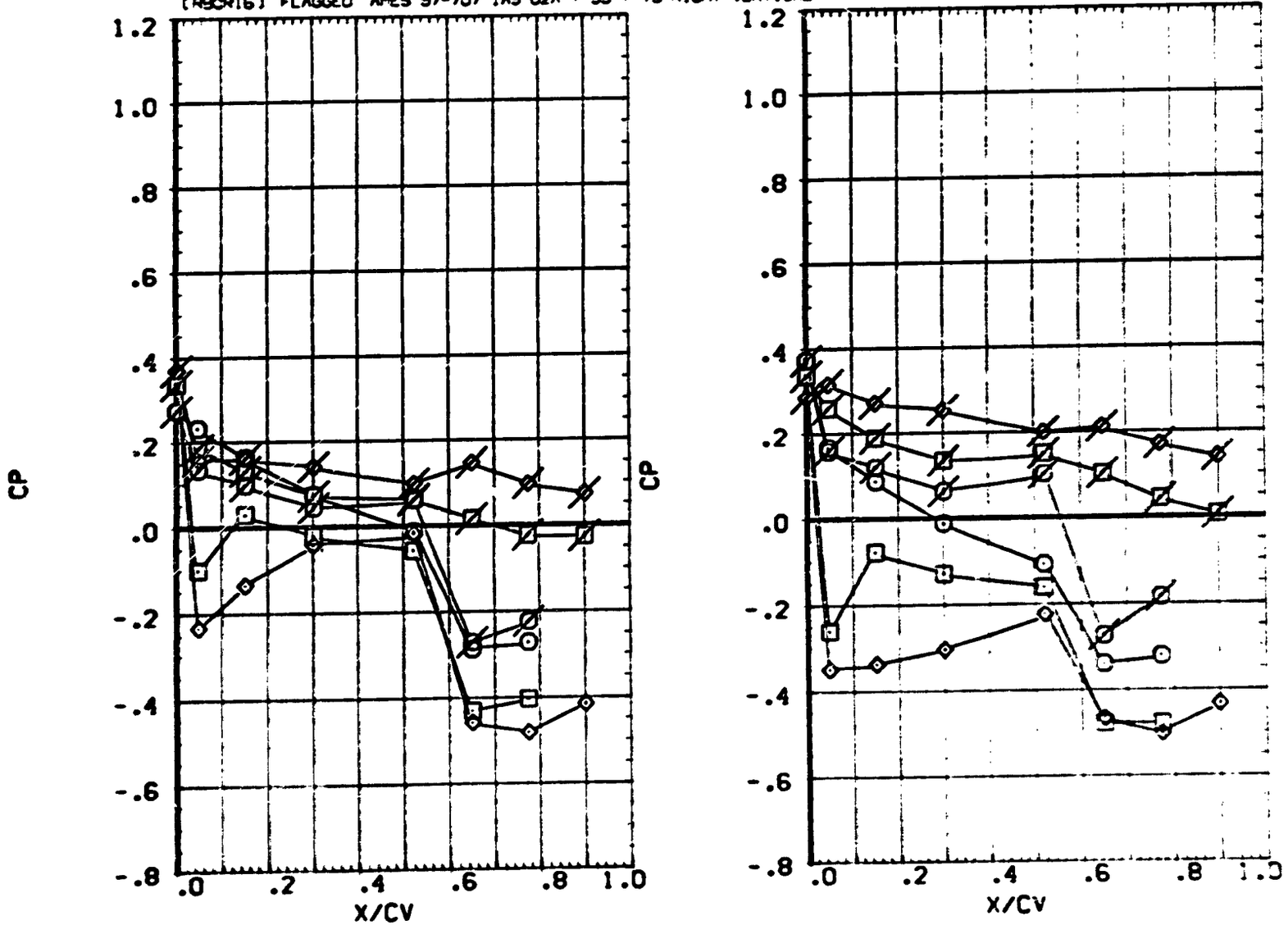
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	4.000	1.555
□	.316	8.120	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	DRBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV16)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBCR16)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



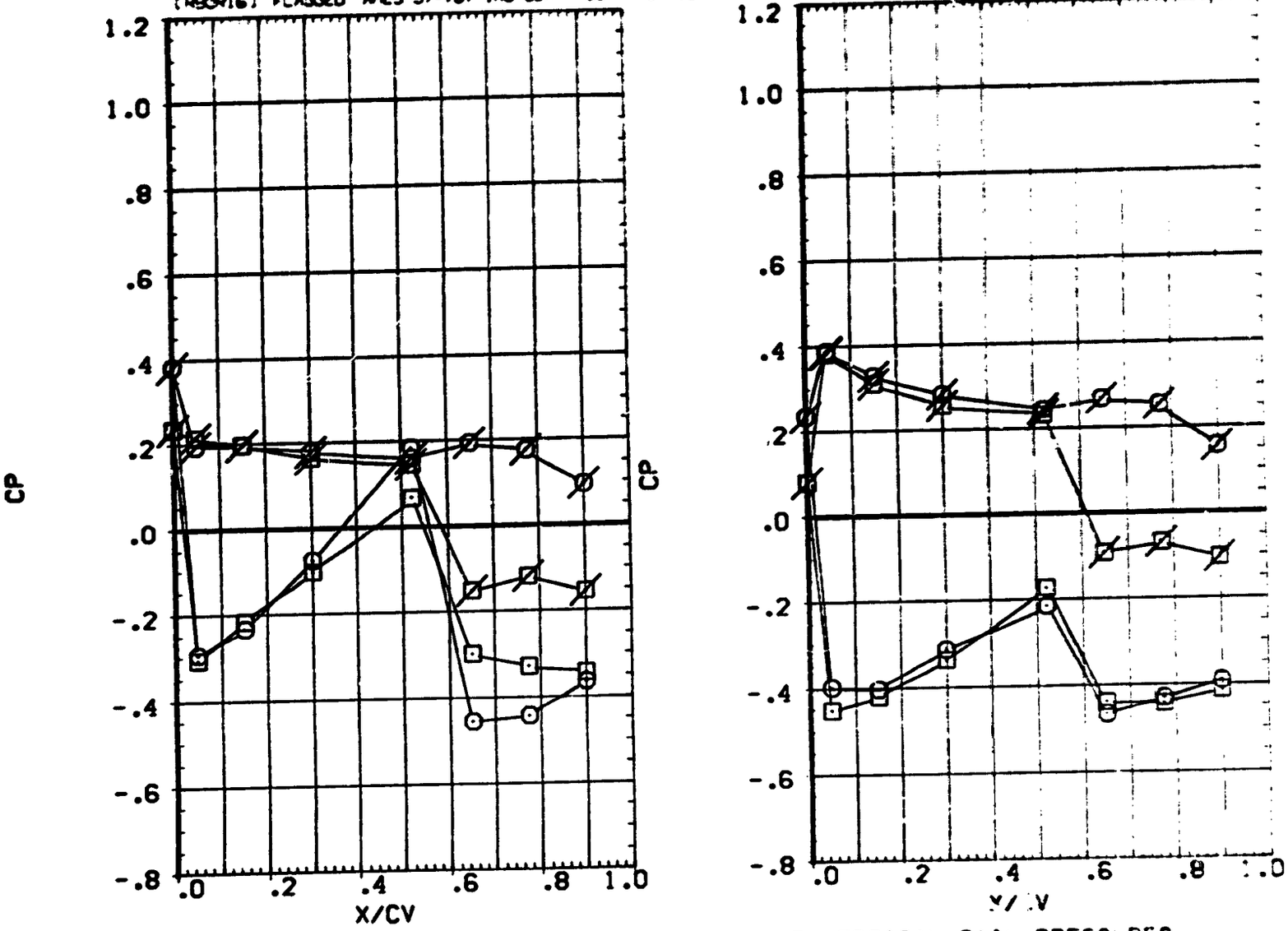
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	4.000	1.565
□	.925	8.120	

PARAMETRIC VALUES

ALPHAT	8.000	SPRING	.500
RUDDER	-15.000	ELEVON	.000
RUD_R	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCV16)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBCR16)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



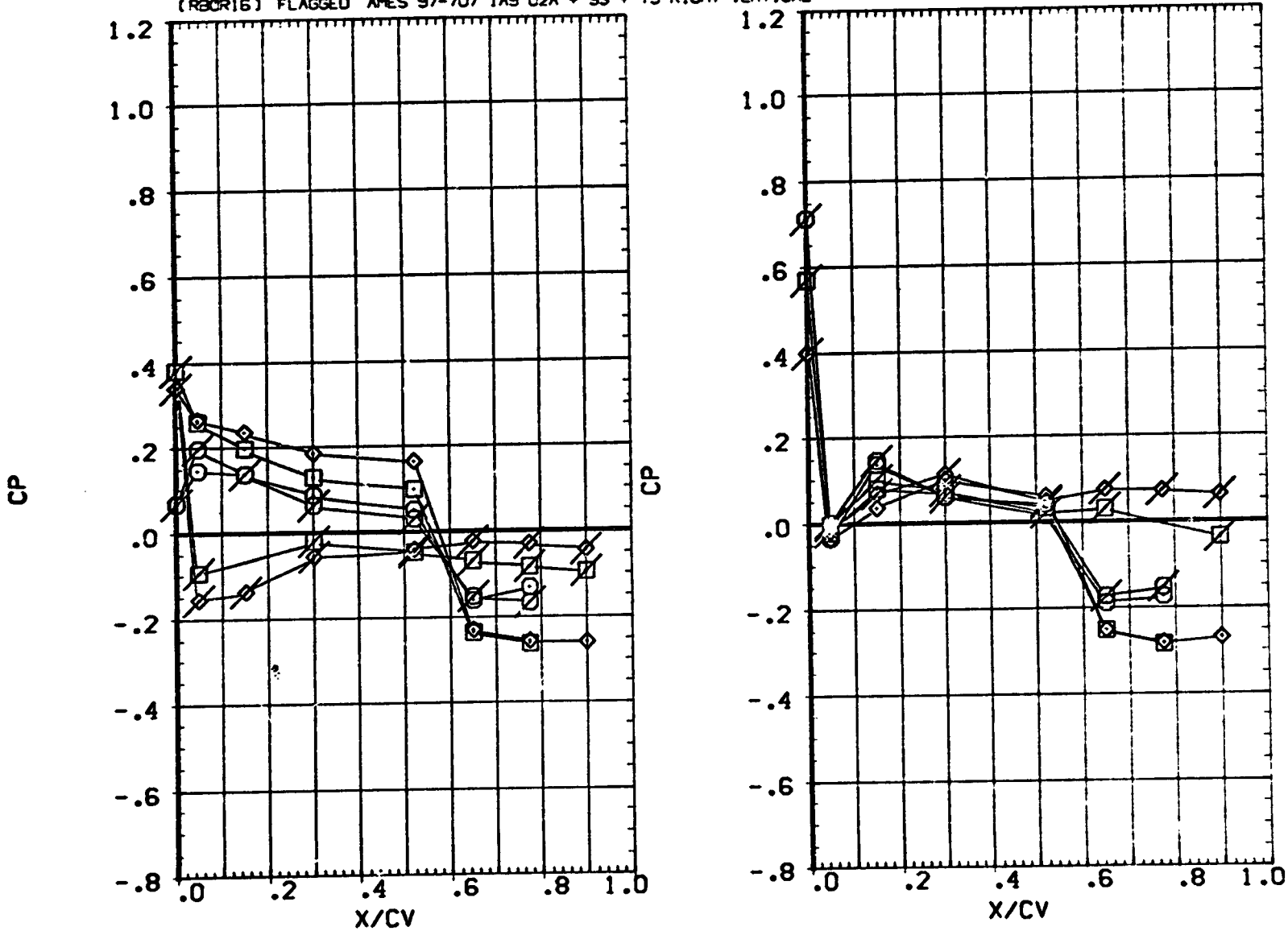
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
	.158	-4.220	2.000
	.316	-.120	
	.600		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV16)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR16)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



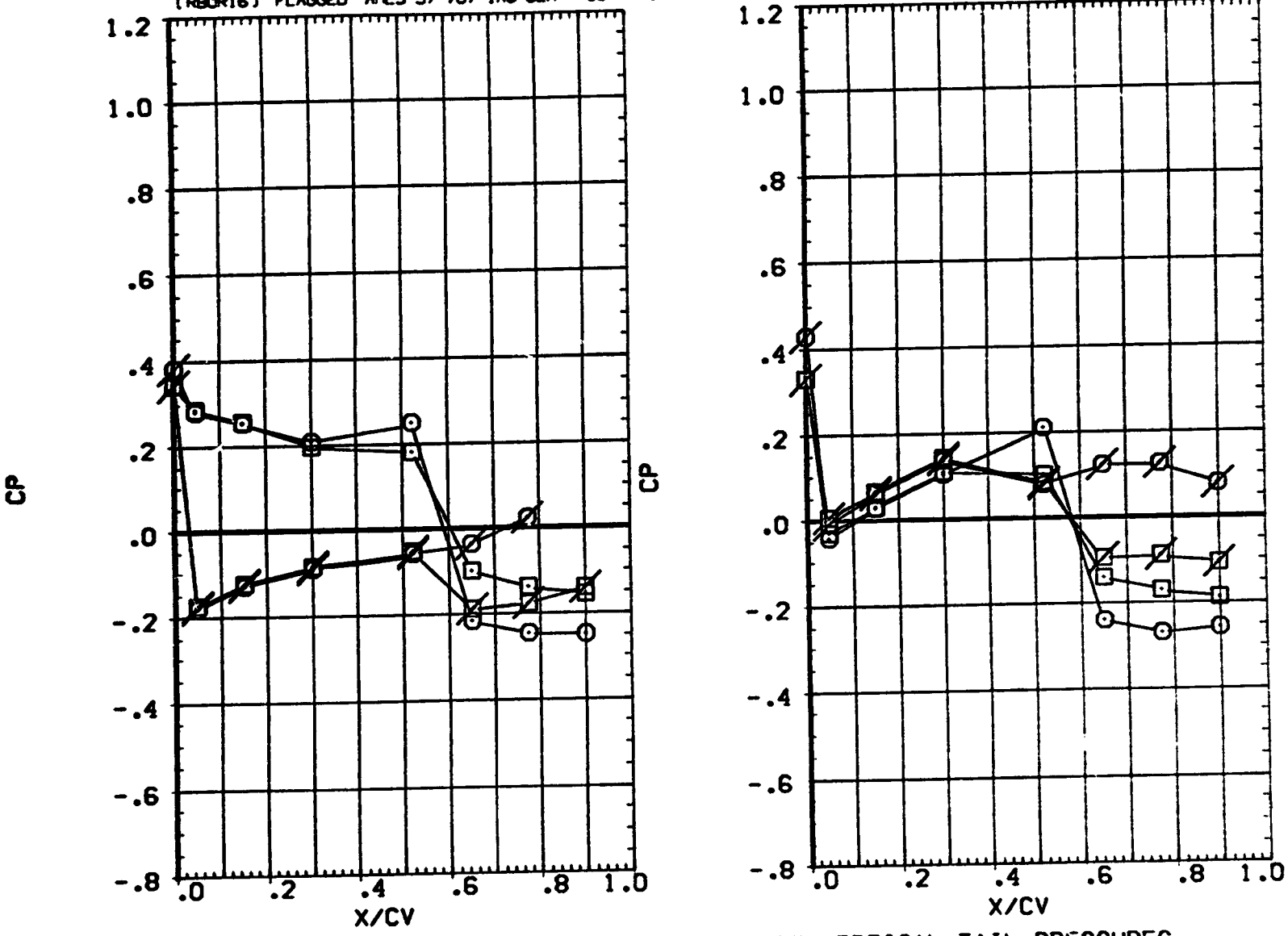
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-4.220	2.000
□	.925	-.120	

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV16)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR16)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



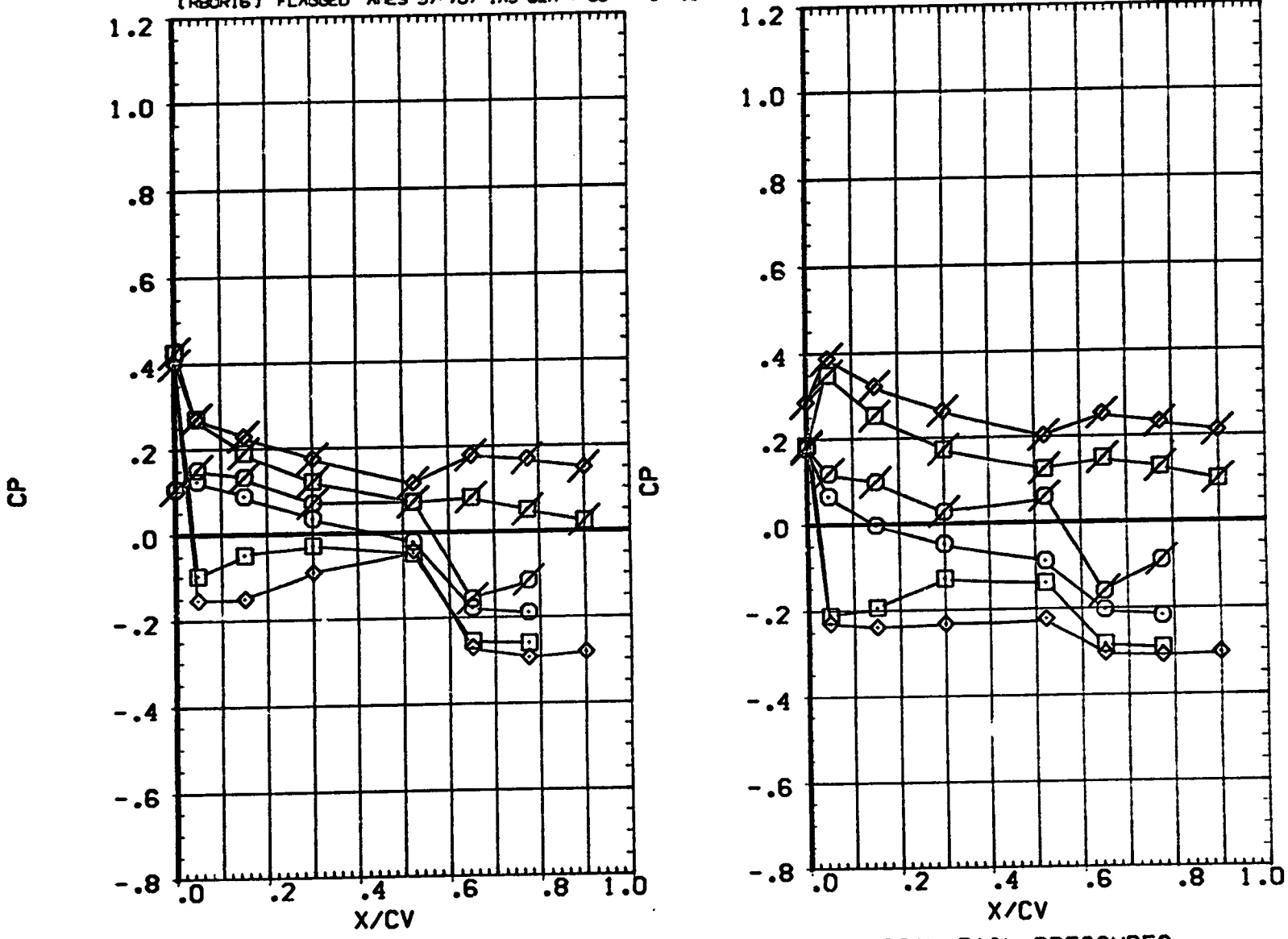
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	3.990	2.000
□	.316	8.110	
◇	.600		

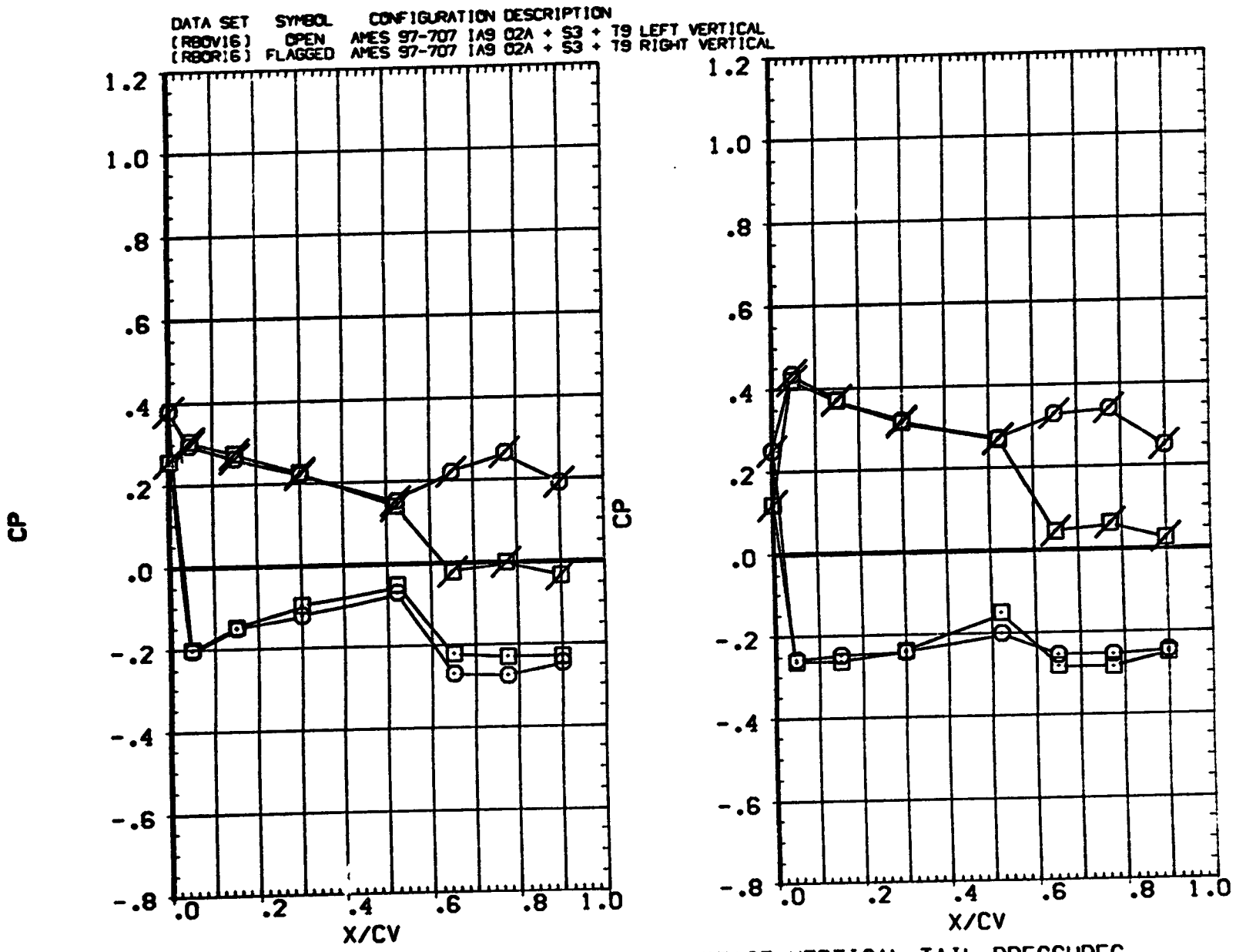
PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV16)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR16)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



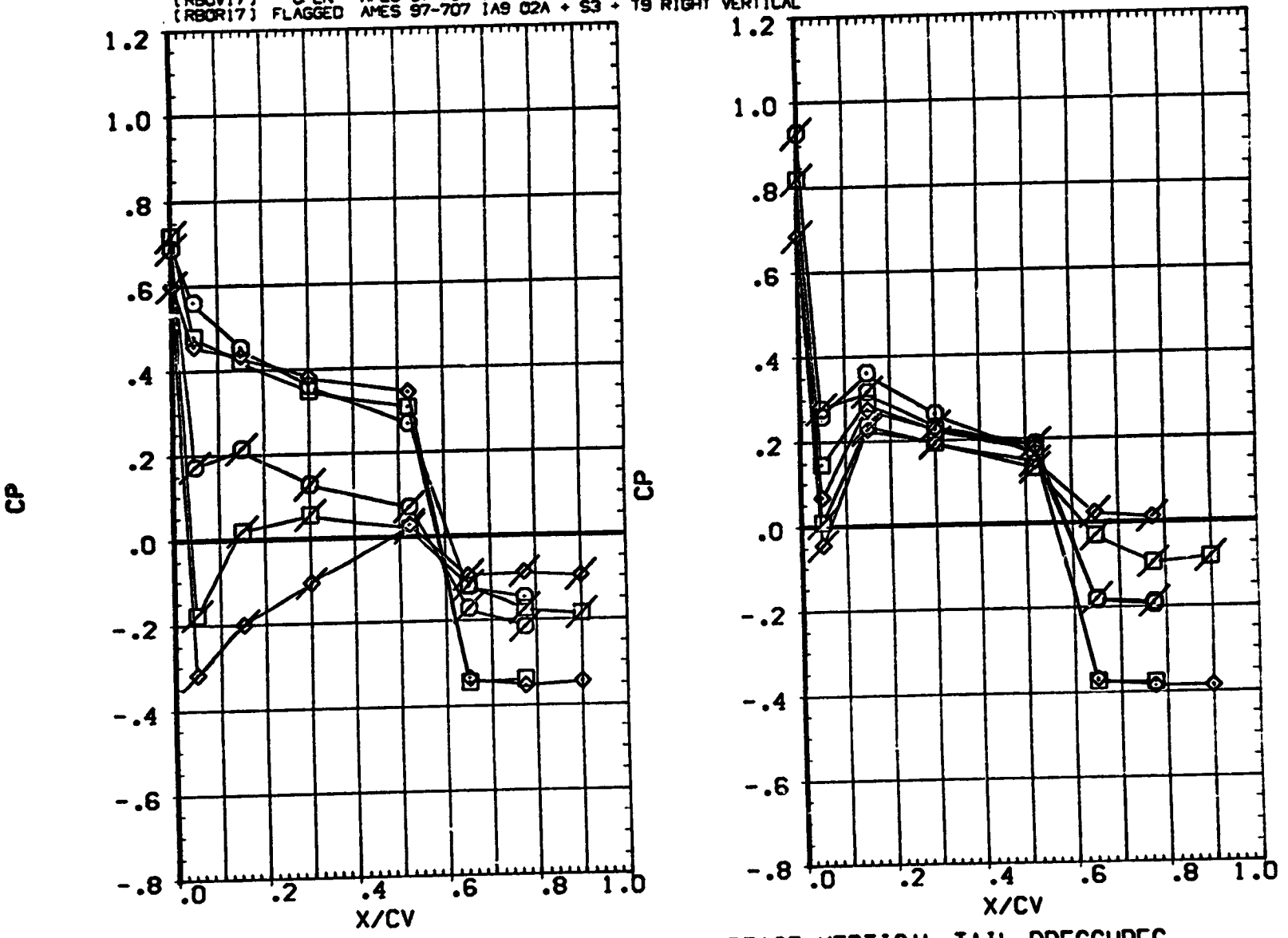
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.300	1.555
□	.316	-.180	
◇	.600		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV17)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR17)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL

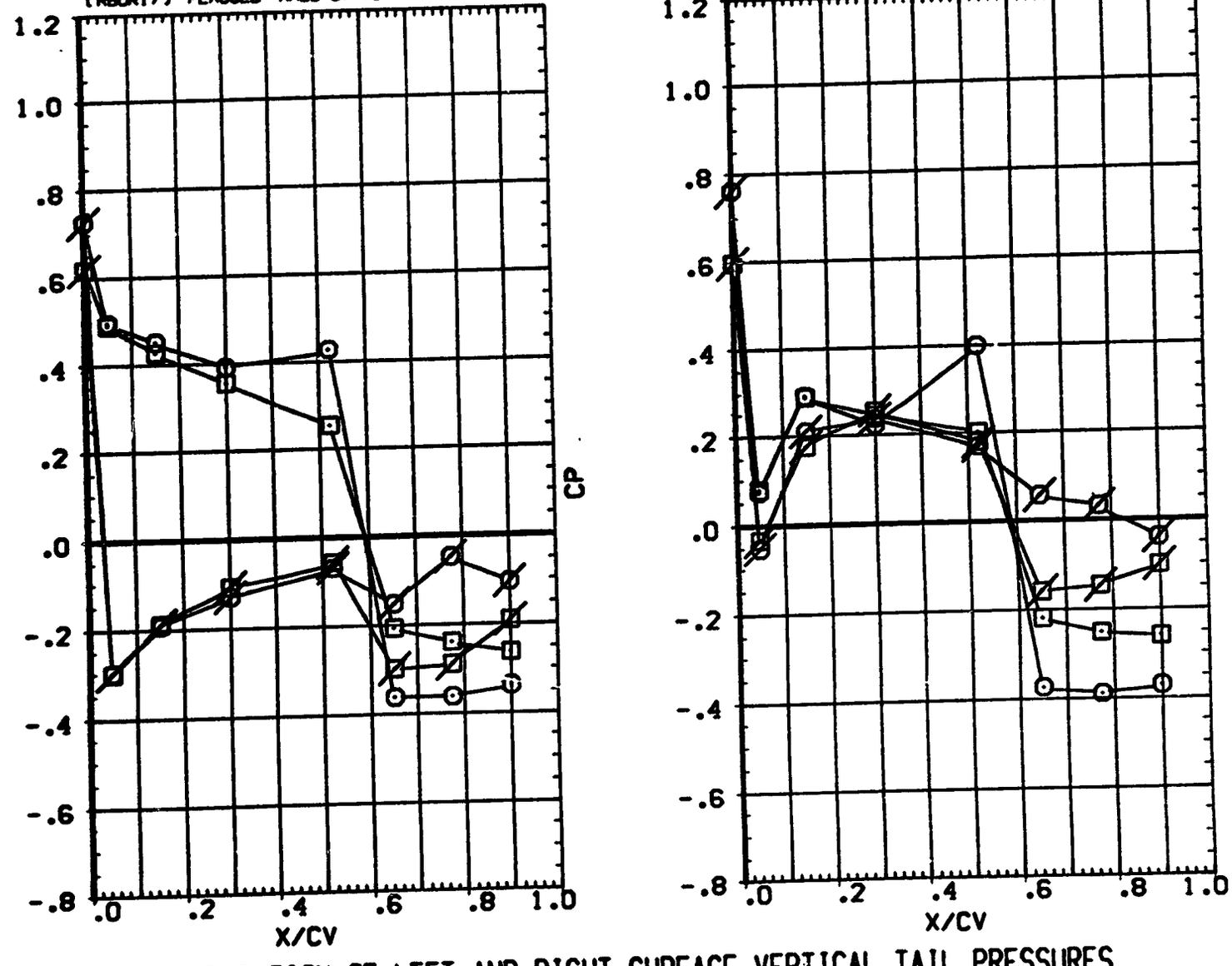


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	[illegible]	[illegible]	[illegible]
○	.840	-4.300	1.555
□	.925	-.180	

RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV17)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR17)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



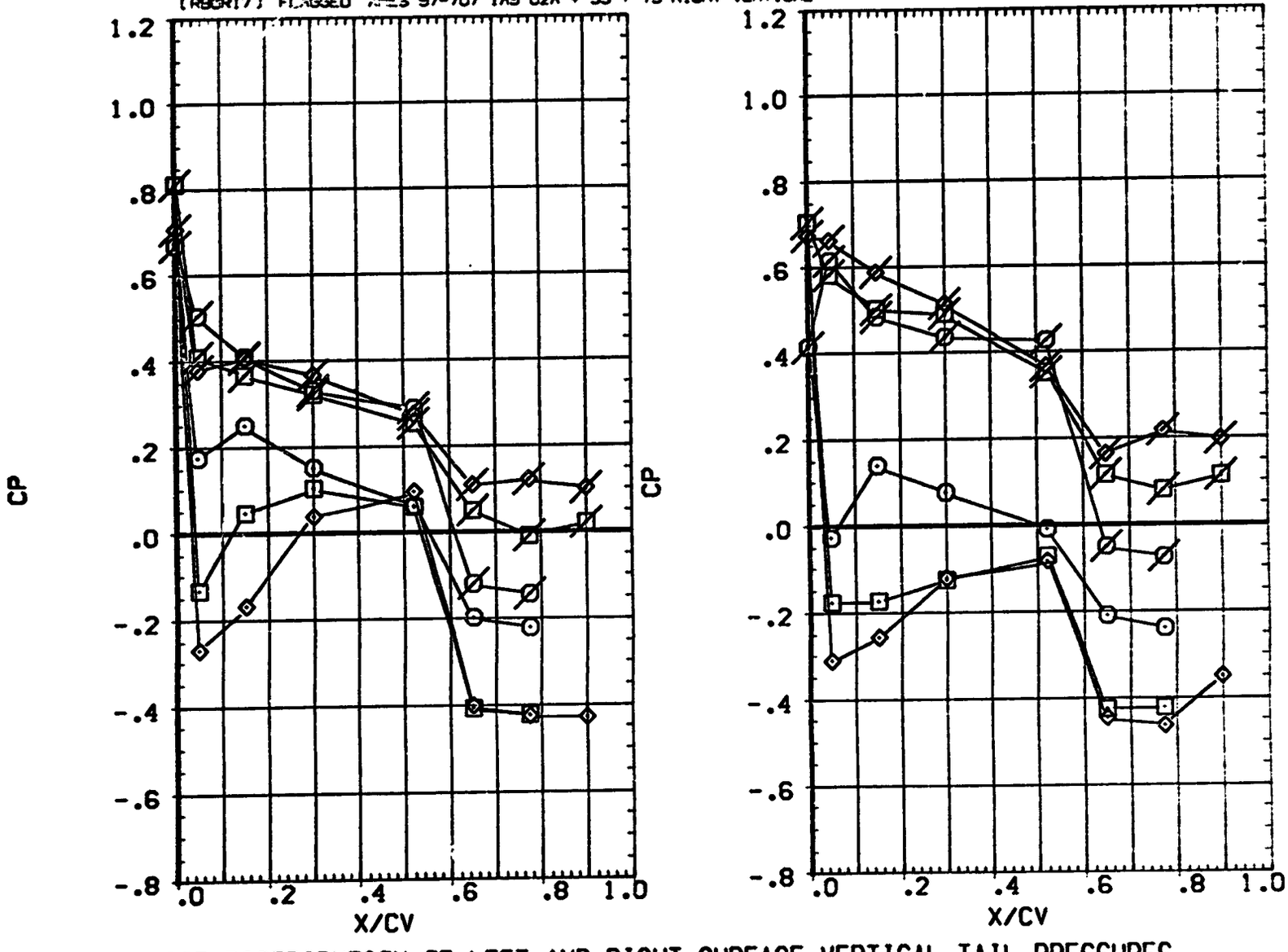
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	3.930	1.555
□	.316	8.050	
◇	.600		

PARAMETRIC VALUES

ALPHAT	-8.000	DRBINC	.500
RUDDER	-10.000	ELEVCN	.000
RUDFLR	.000		

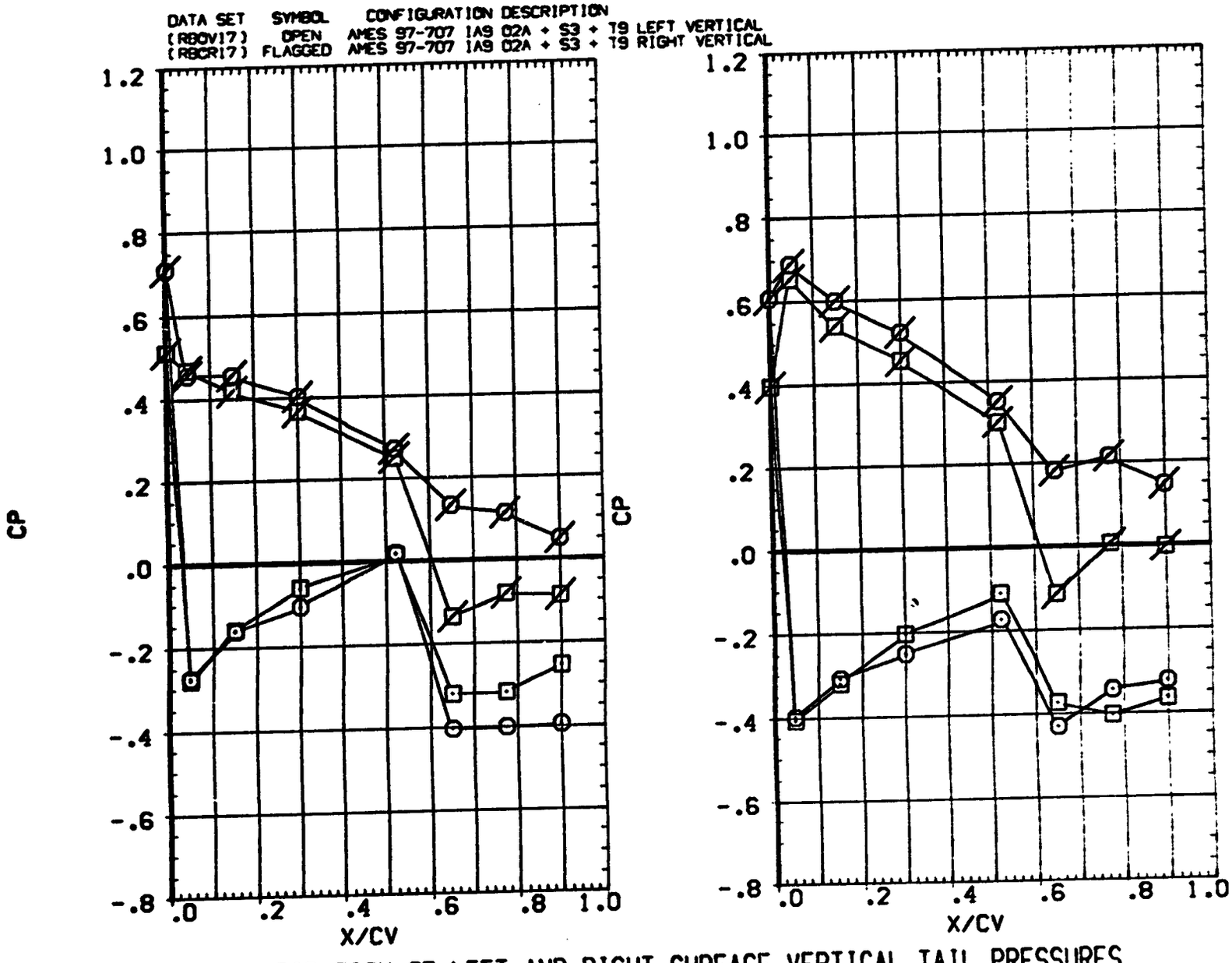
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCV17)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBCR17)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

.925 8.050

RUDFLR .000



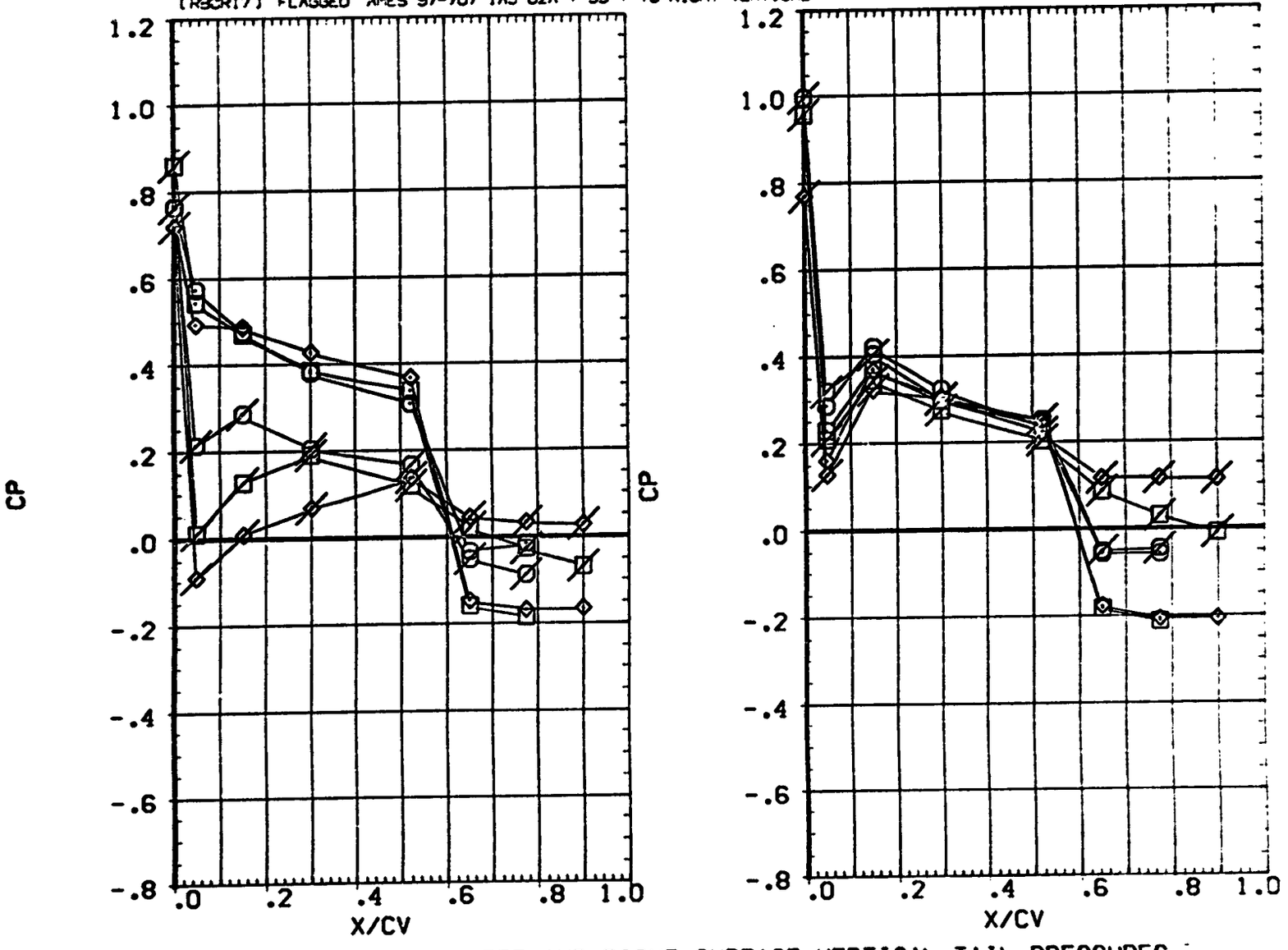
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.280	2.000
□	.316	-.170	
◇	.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCV17)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBCR17)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL

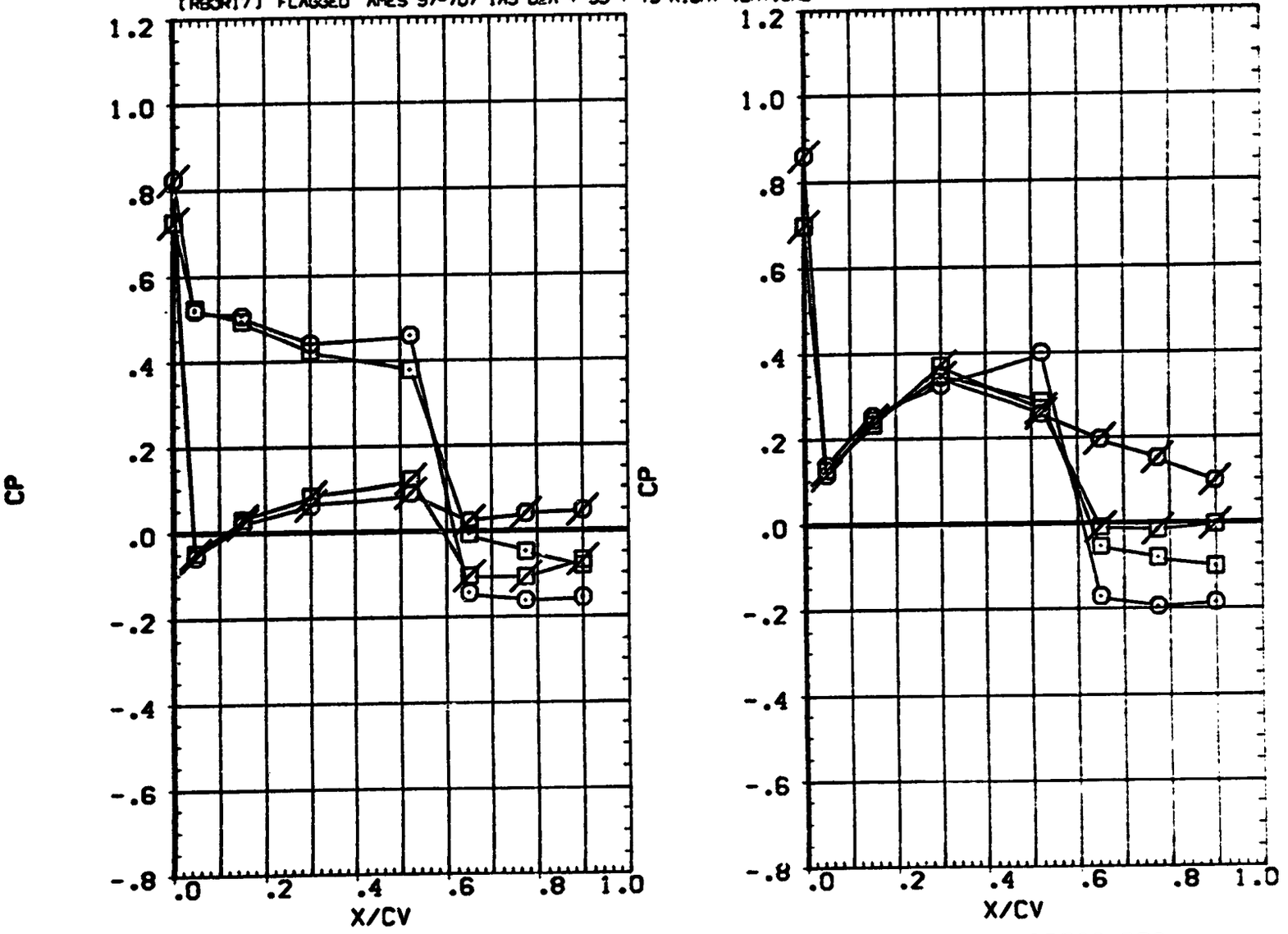


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-4.280	2.000
□	.925	-.170	

ALPHAT	-8.000	DRBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV17)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR17)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



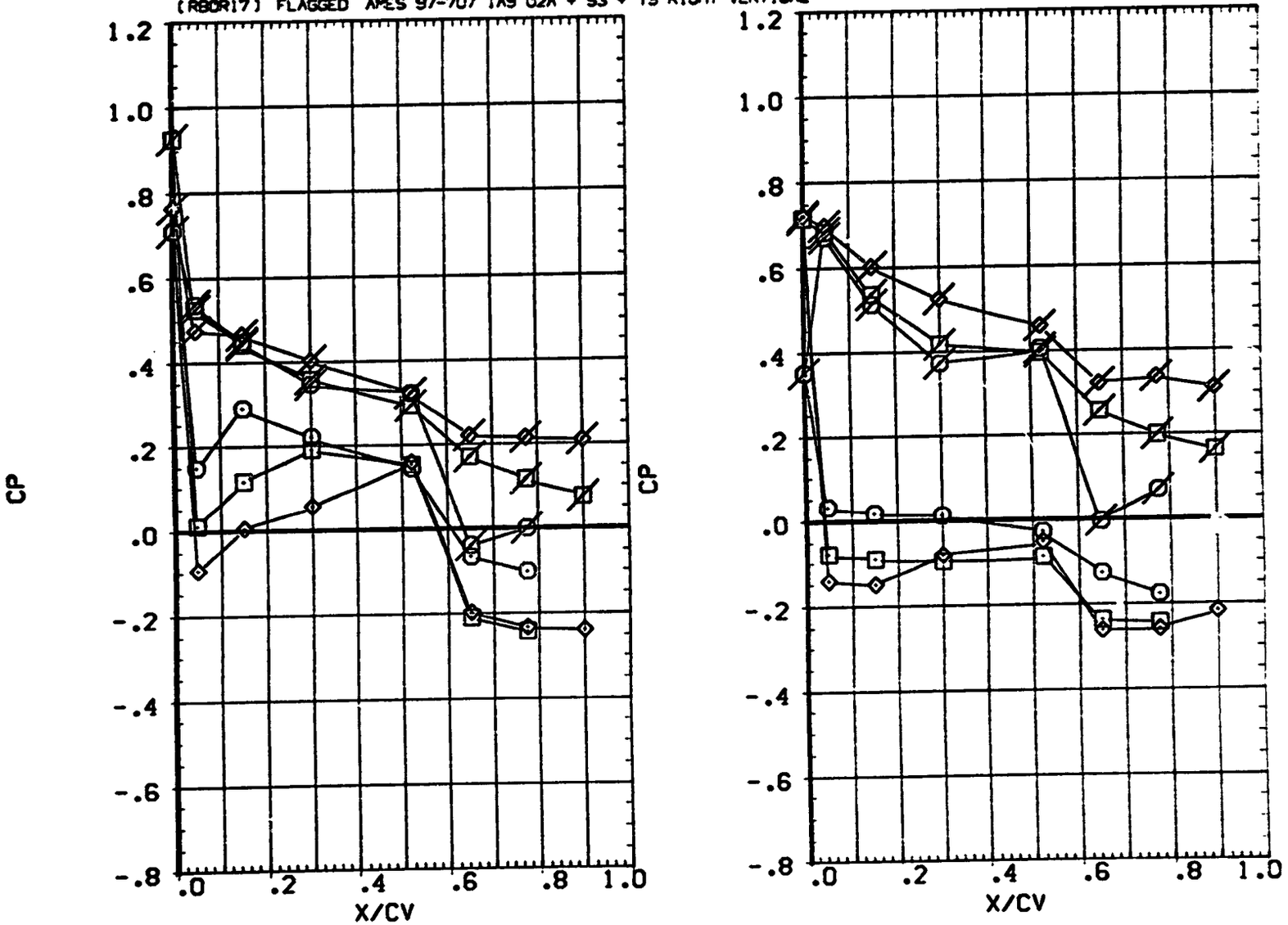
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	3.930	2.000
□	.316	8.040	
◇	.600		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV17)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR17)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



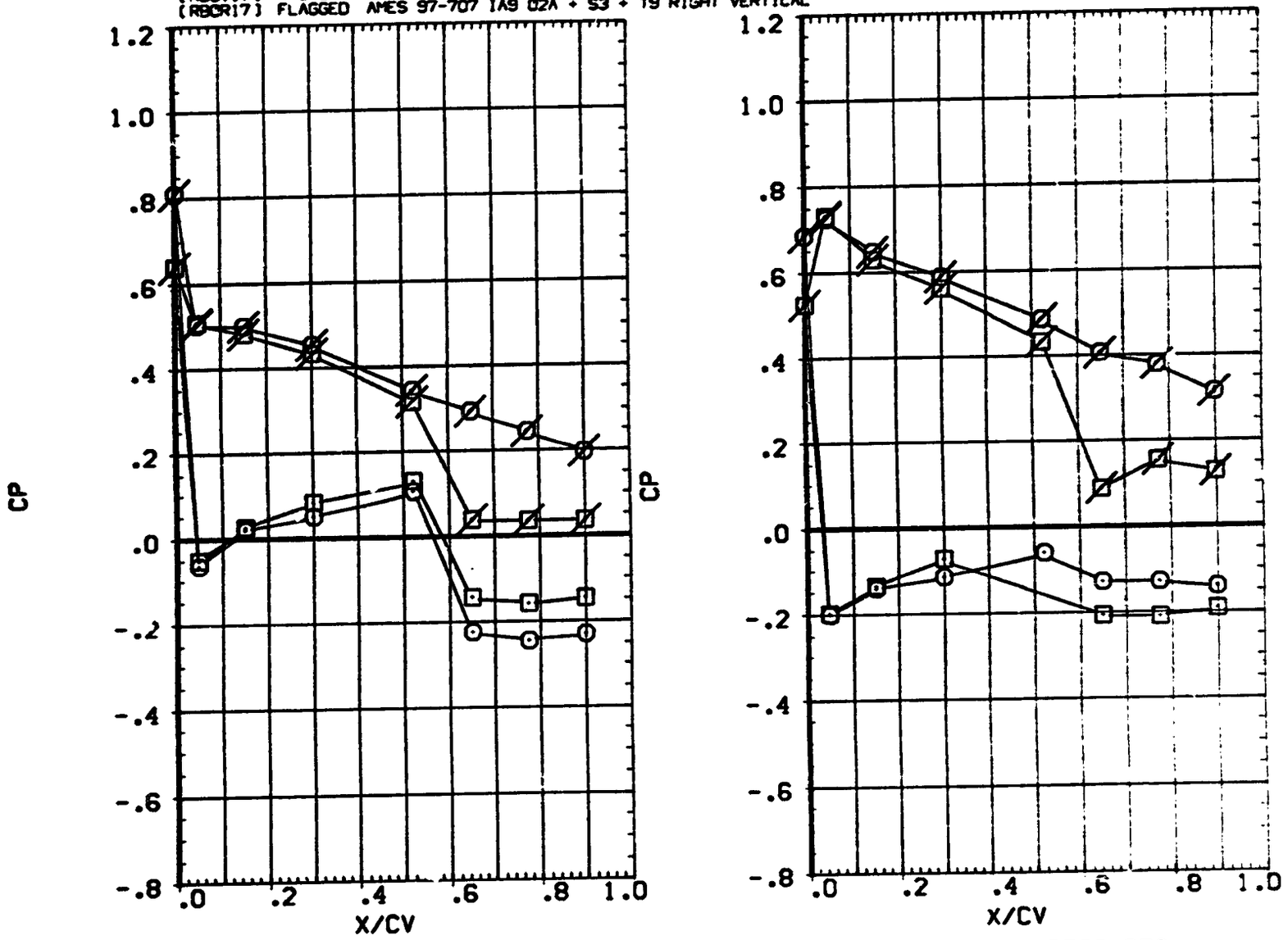
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	3.930	2.000
□	.925	8.040	

PARAMETRIC VALUES

ALPHAT	-8.000	DRGINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV17)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR17)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



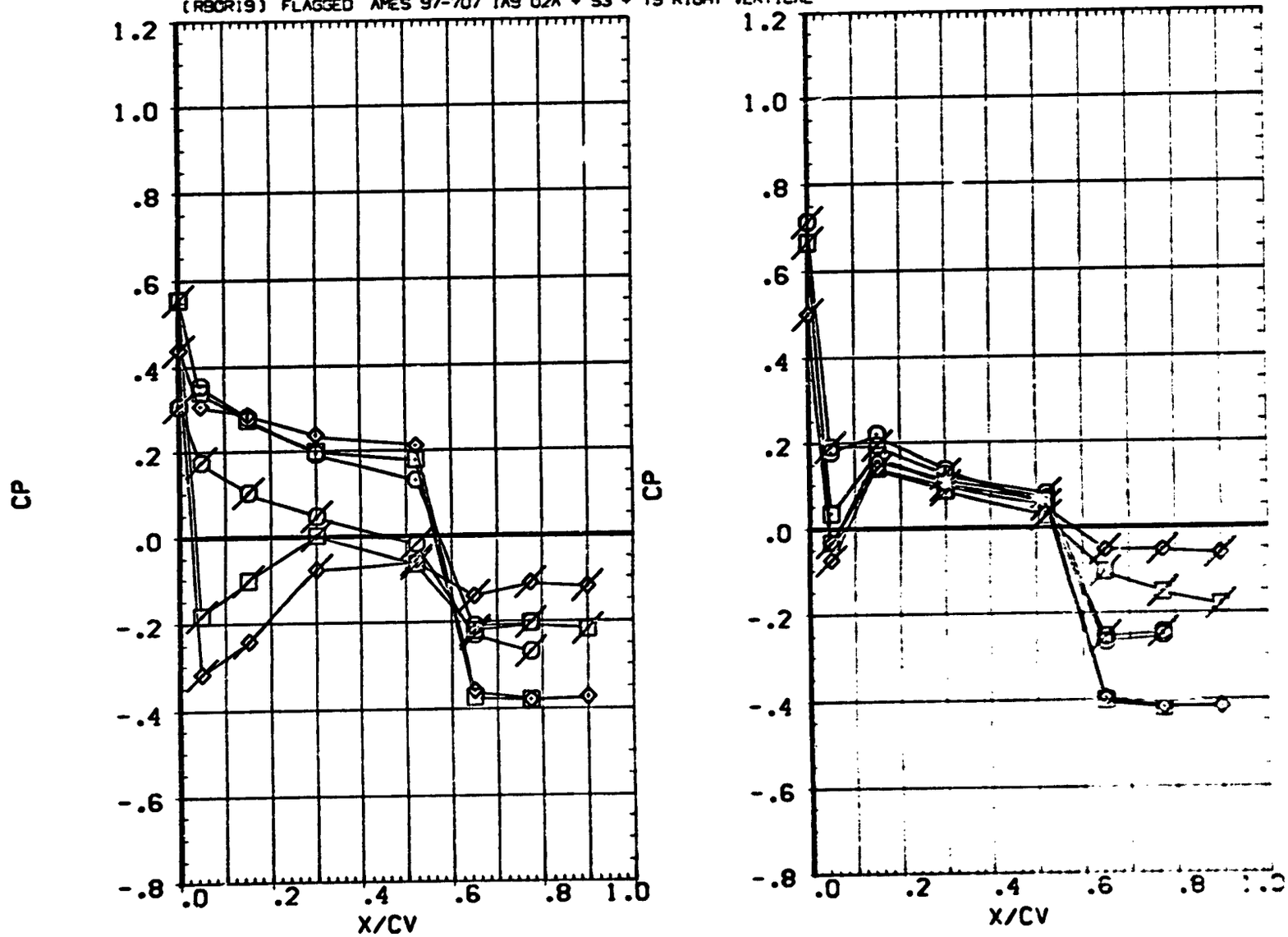
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.240	1.555
□	.316	-.140	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV19)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR19)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



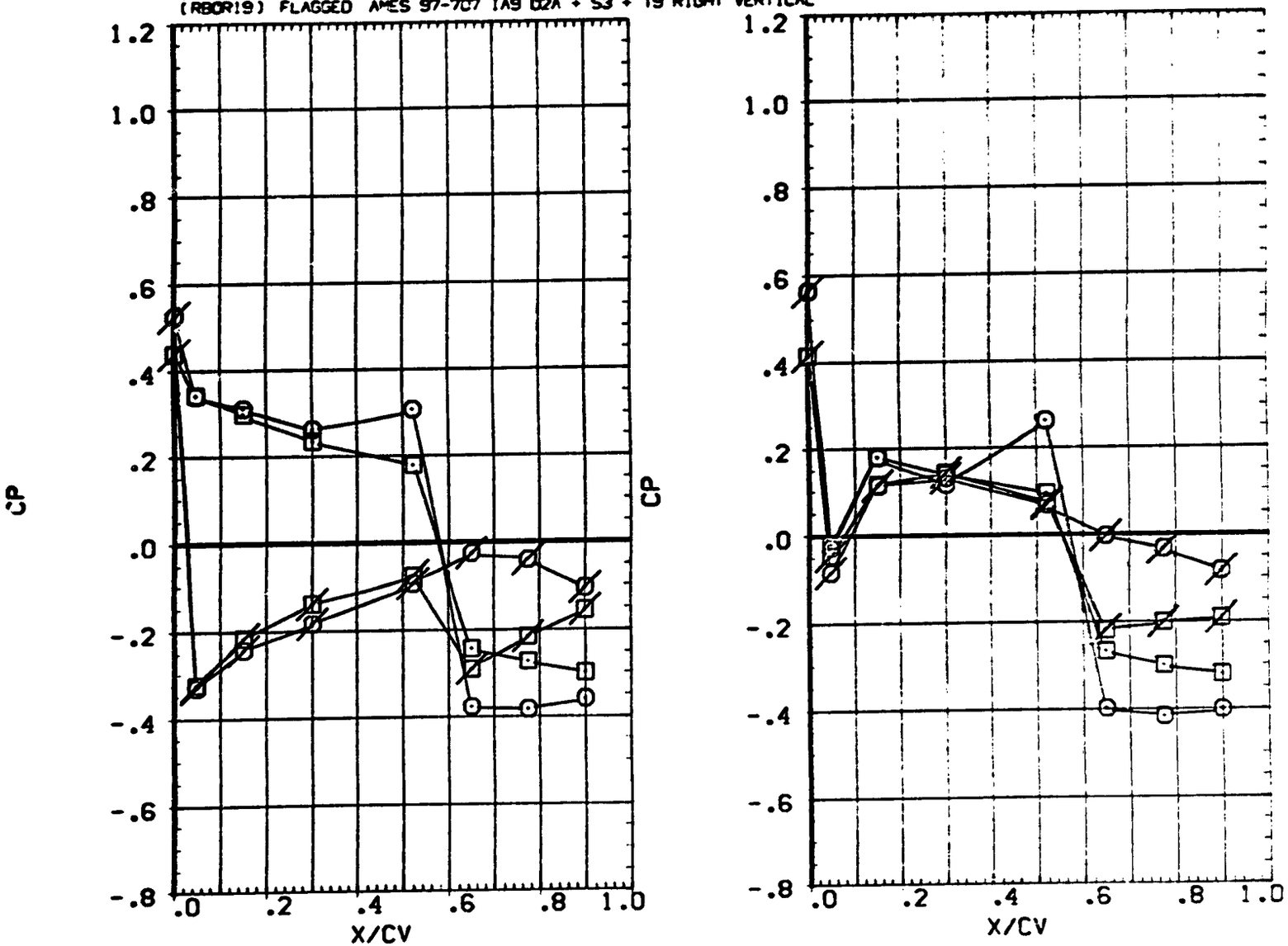
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-4.240	1.555
□	.925	-.140	

PARAMETRIC VALUES

ALPHAT	.000	DRBINC	.000
RUDDER	-10.000	ELEVON	.000
ROLL	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV19)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR19)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL

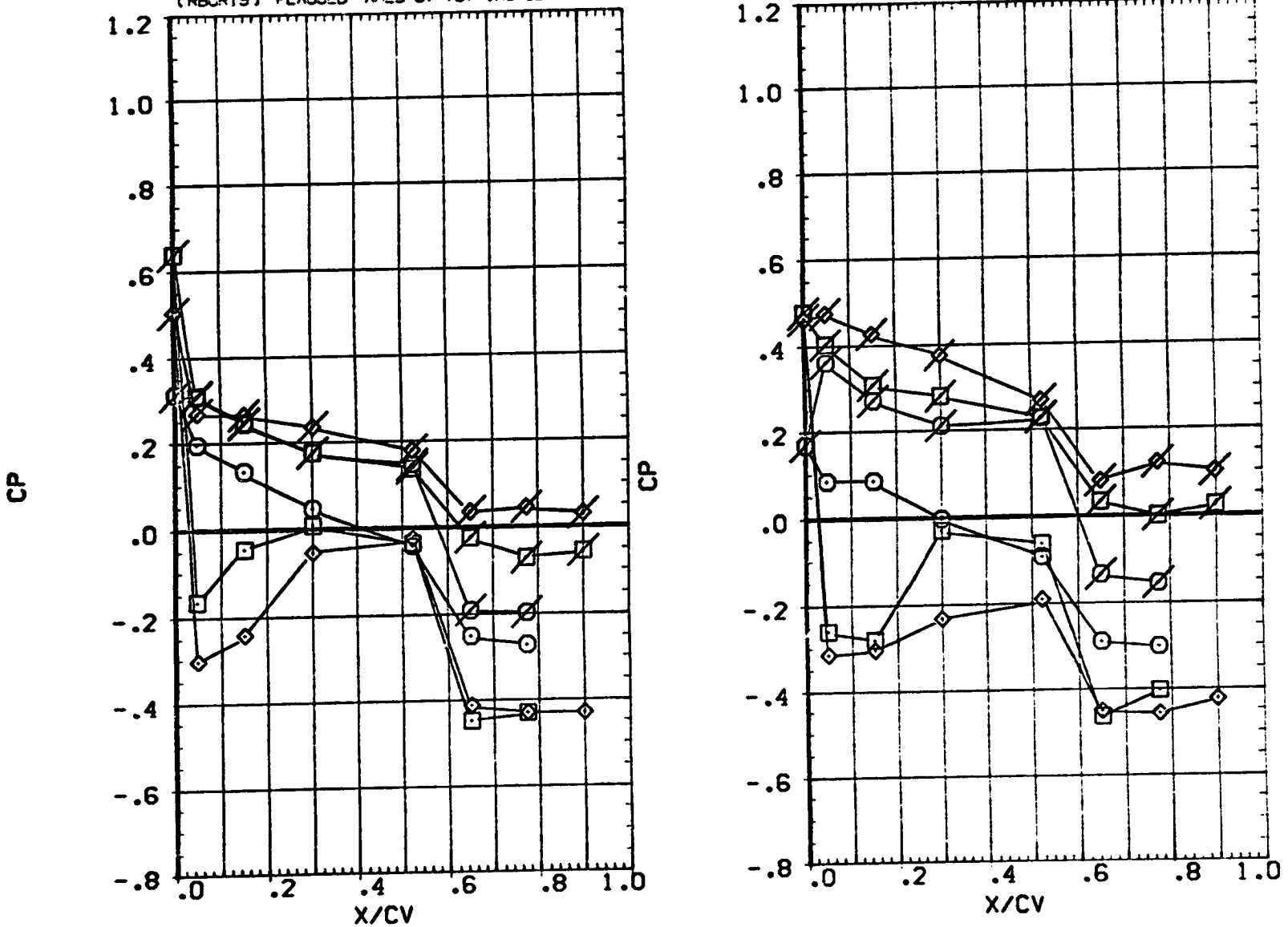


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA	MACH
○	.158	3.950	1.565
□	.316	8.040	
◇	.600		

ALPHAT	.000	ORBINC	.000
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBOV19) OPEN AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR19) FLAGGED AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL

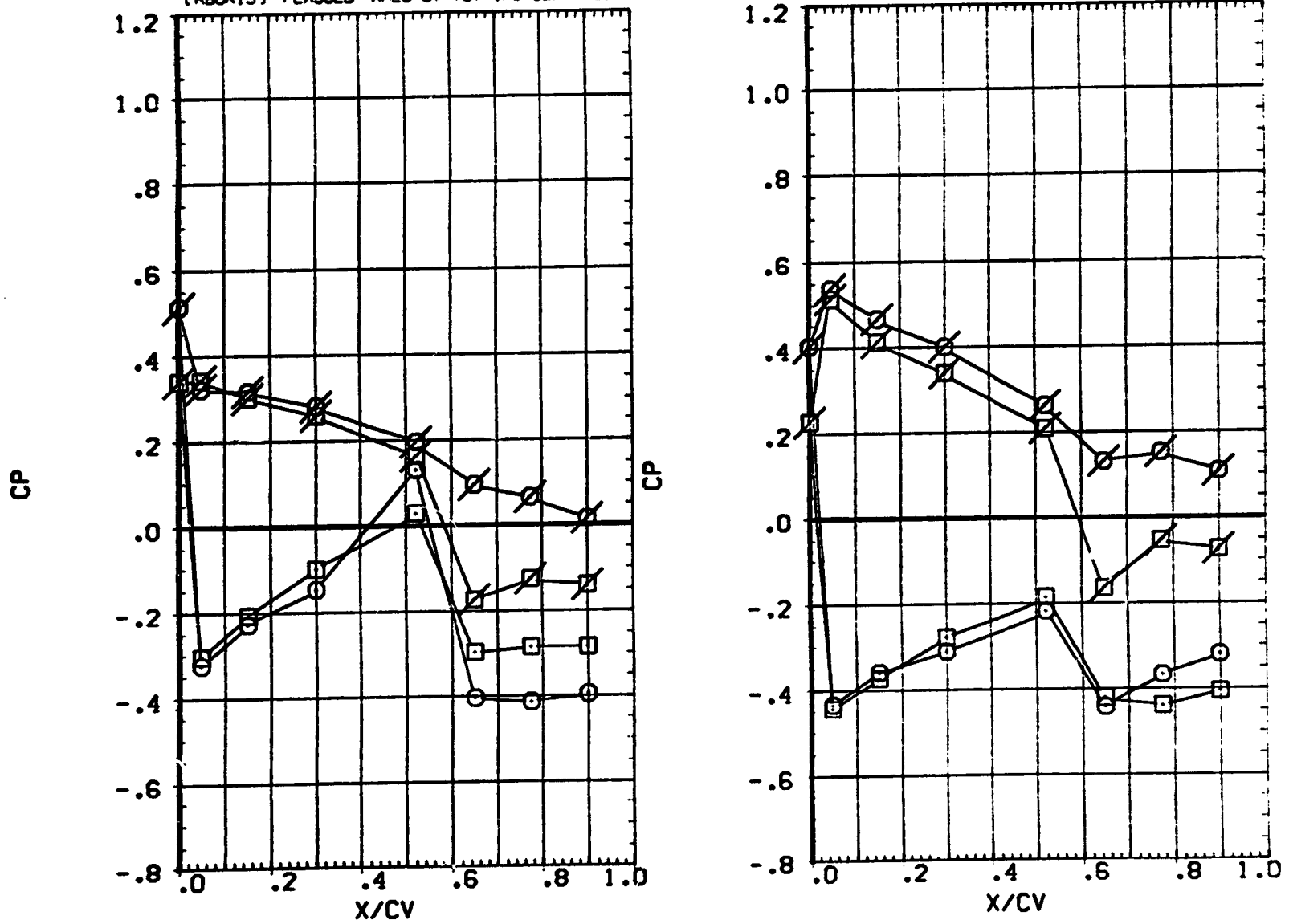


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	3.950	1.555
□	.925	8.040	

ALPHAT	.000	ORBINC	.000
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV19)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR19)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



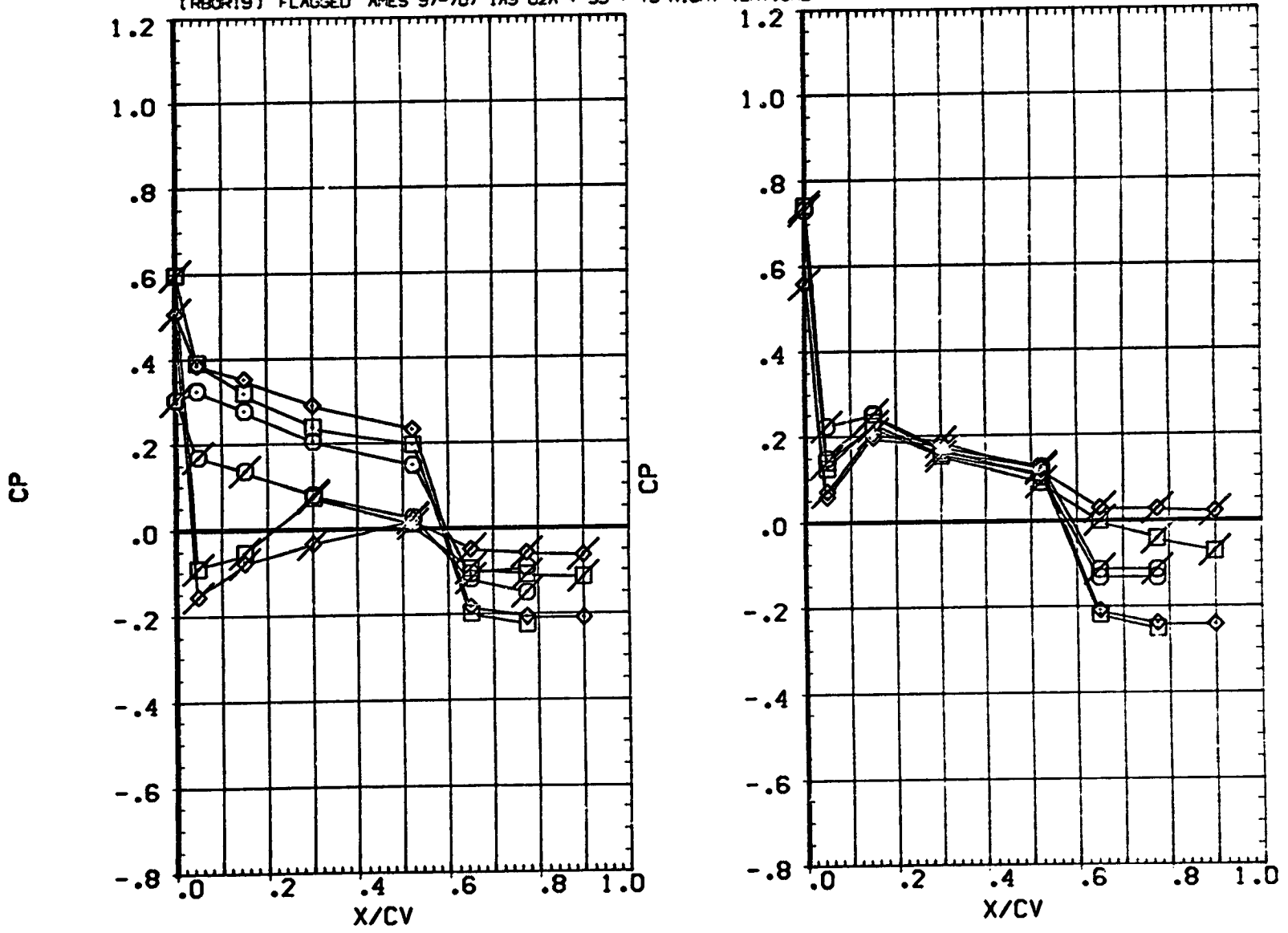
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.220	2.000
□	.316	-.140	
◇	.600		

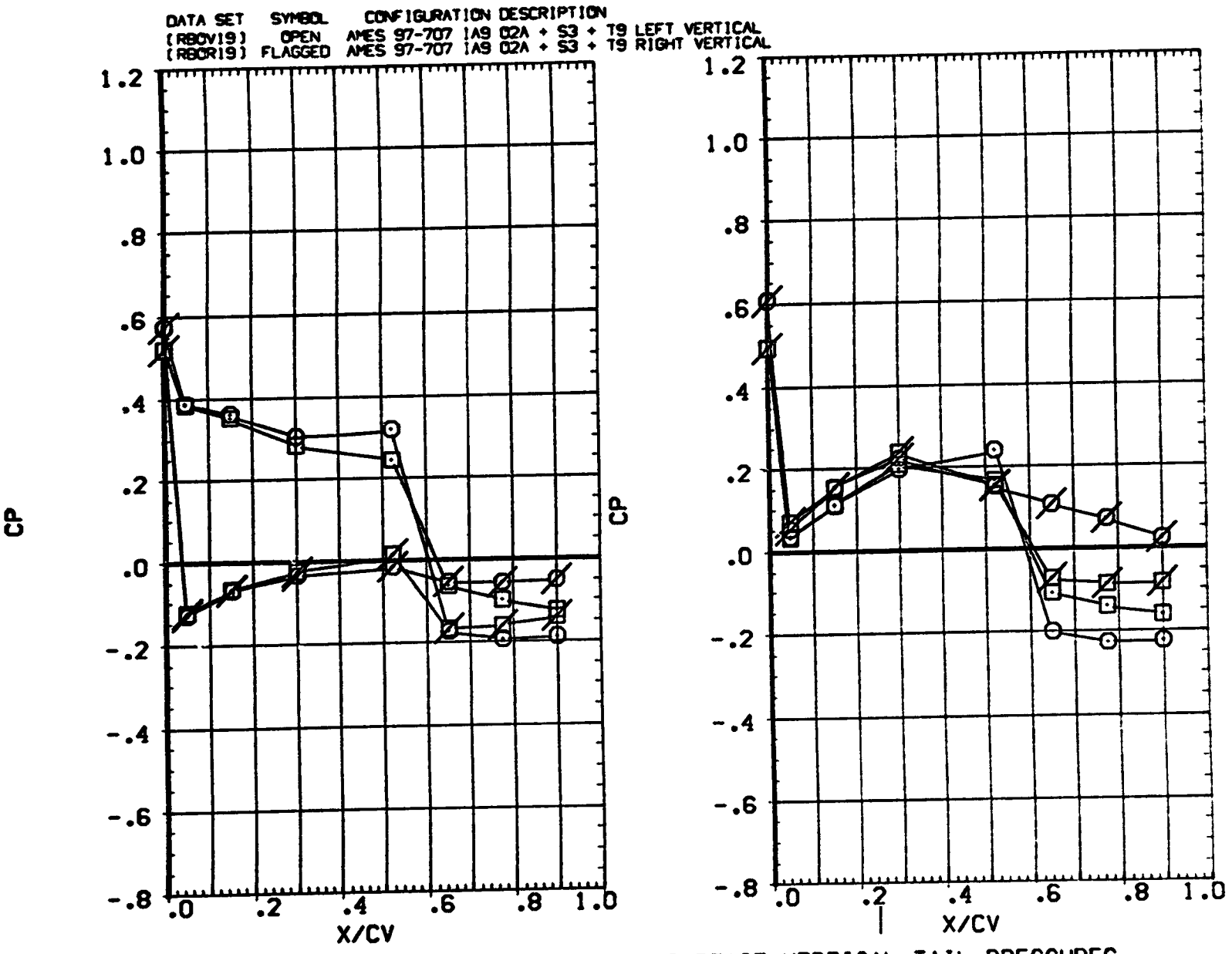
PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	-10.000	ELEVON	.000
AILERON	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV19)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR19)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



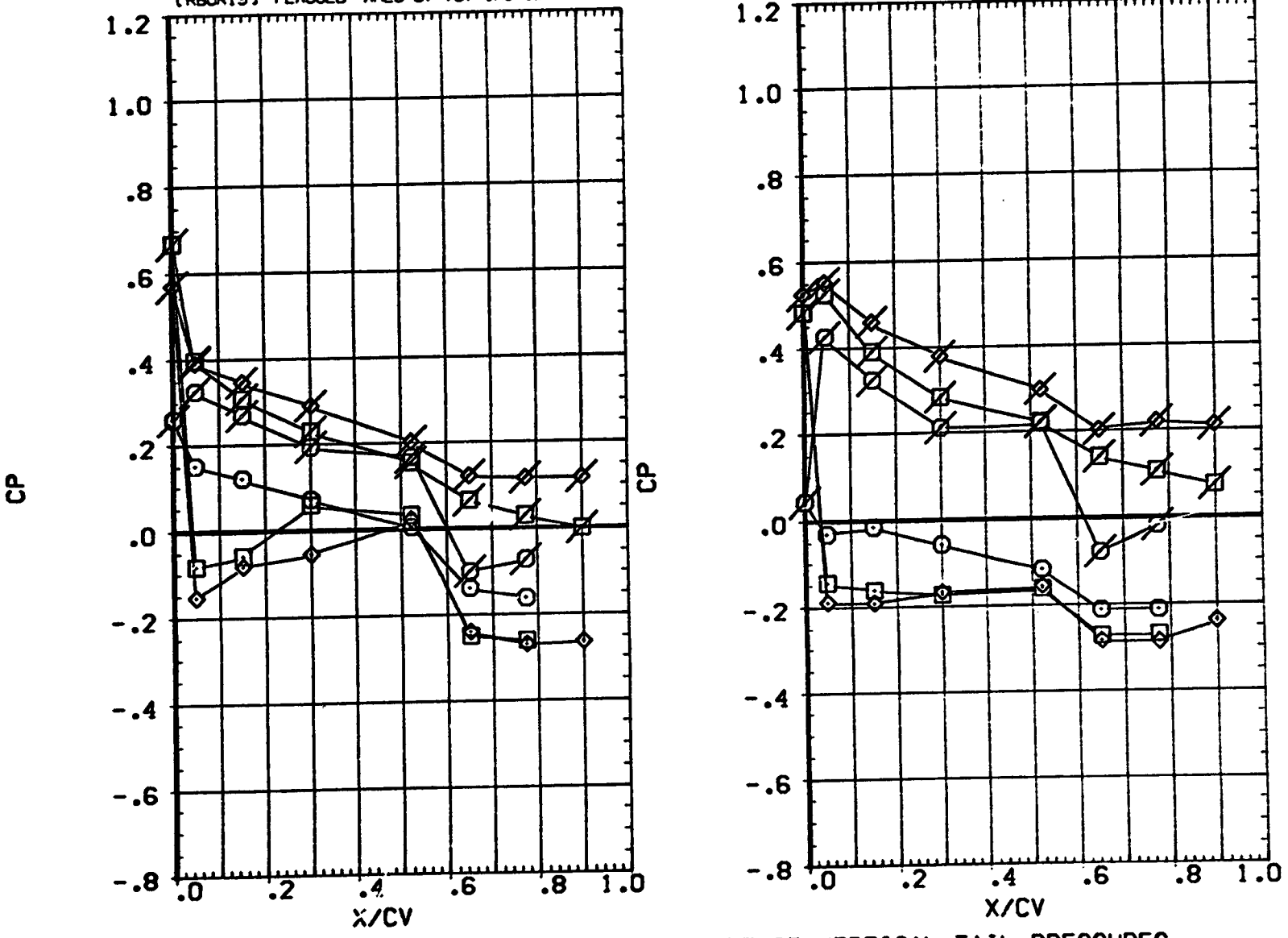
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	3.930	2.000
□	.316	8.020	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBOV19) OPEN AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR19) FLAGGED AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL

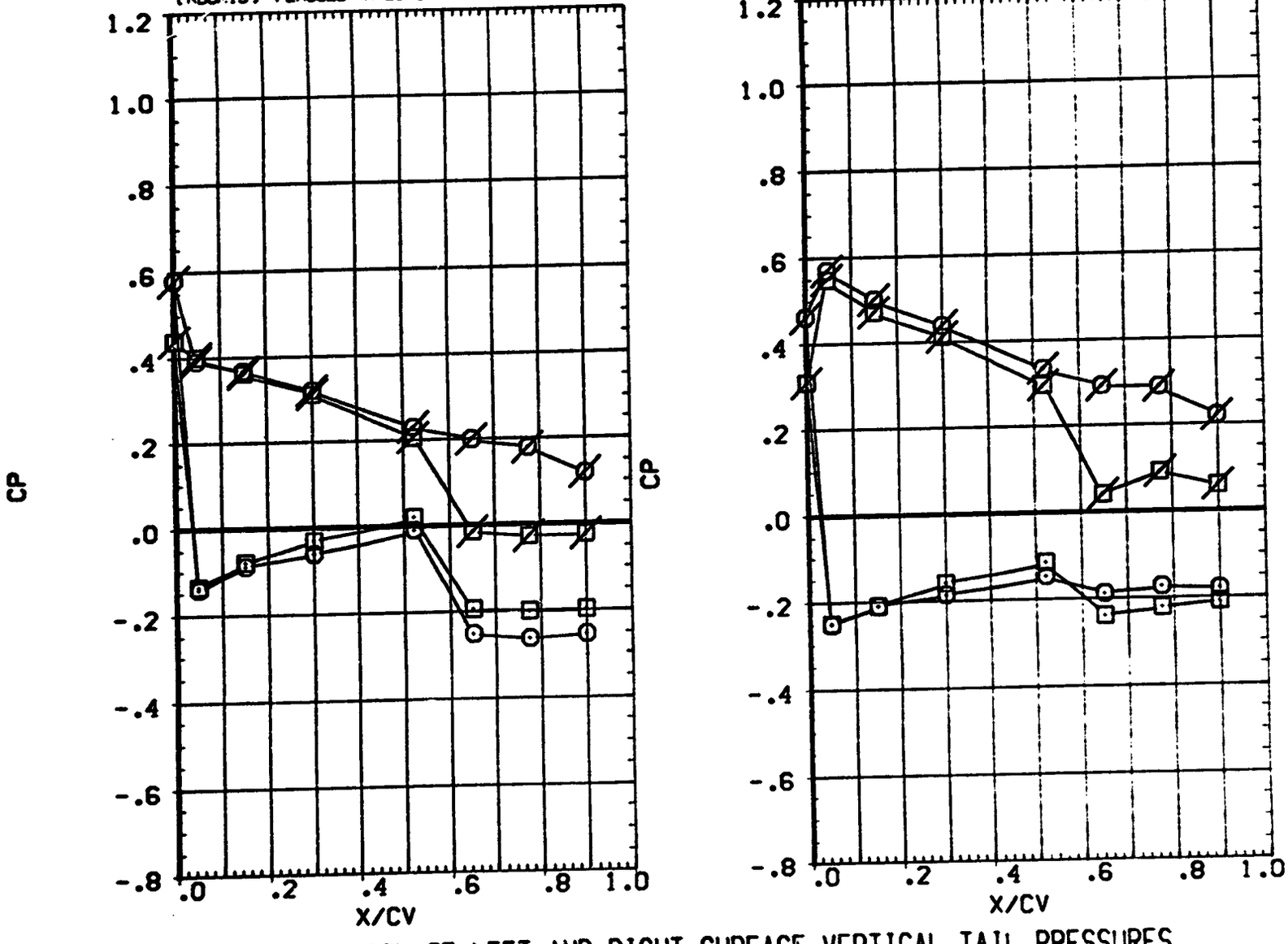


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	3.930	2.000
□	.925	0.020	

ALPHAT	.000	ORBINC	.000
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBOV19) OPEN AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOP19) FLAGGED AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



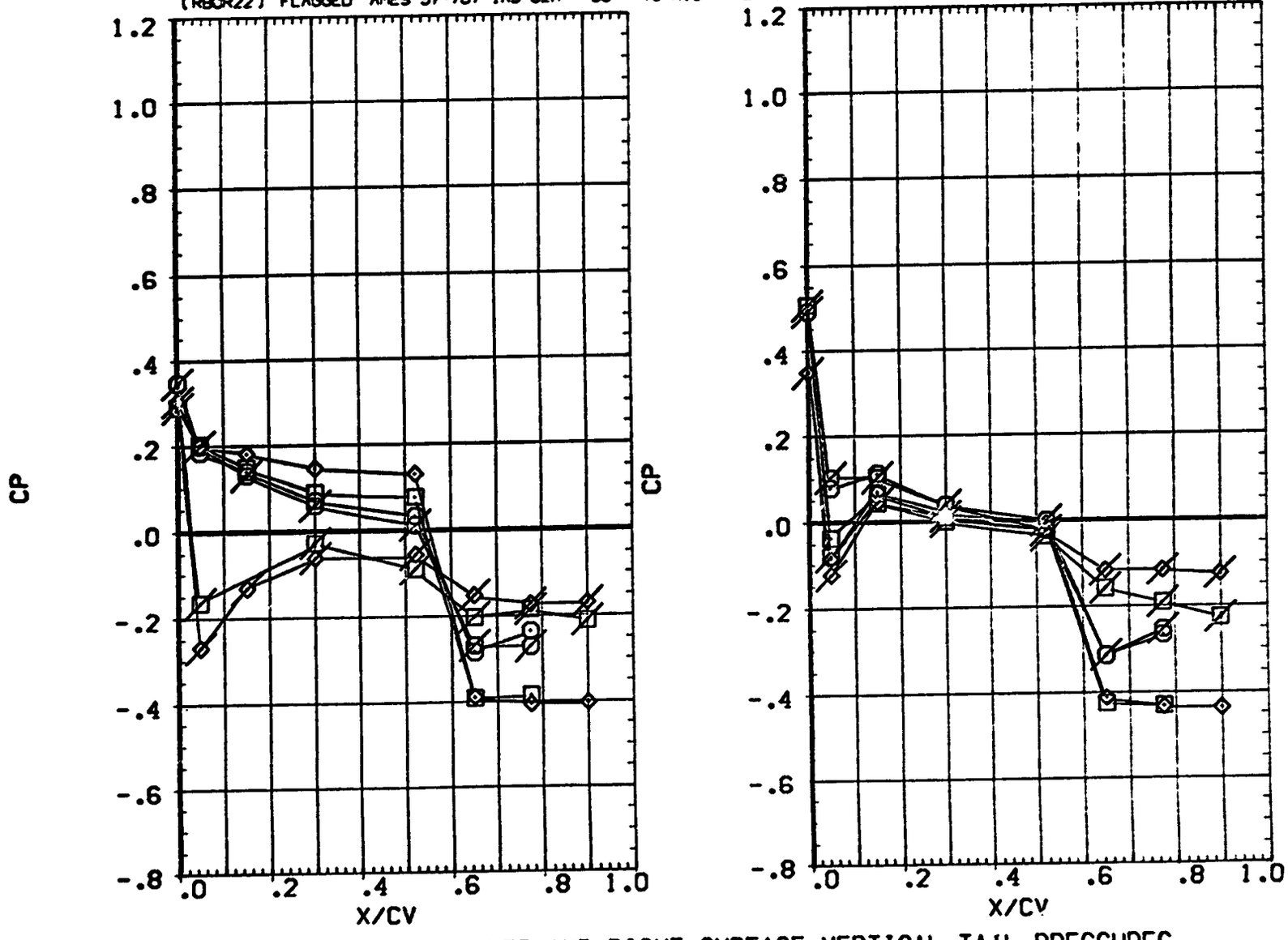
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.230	1.555
□	.316	-.110	
◇	.600		

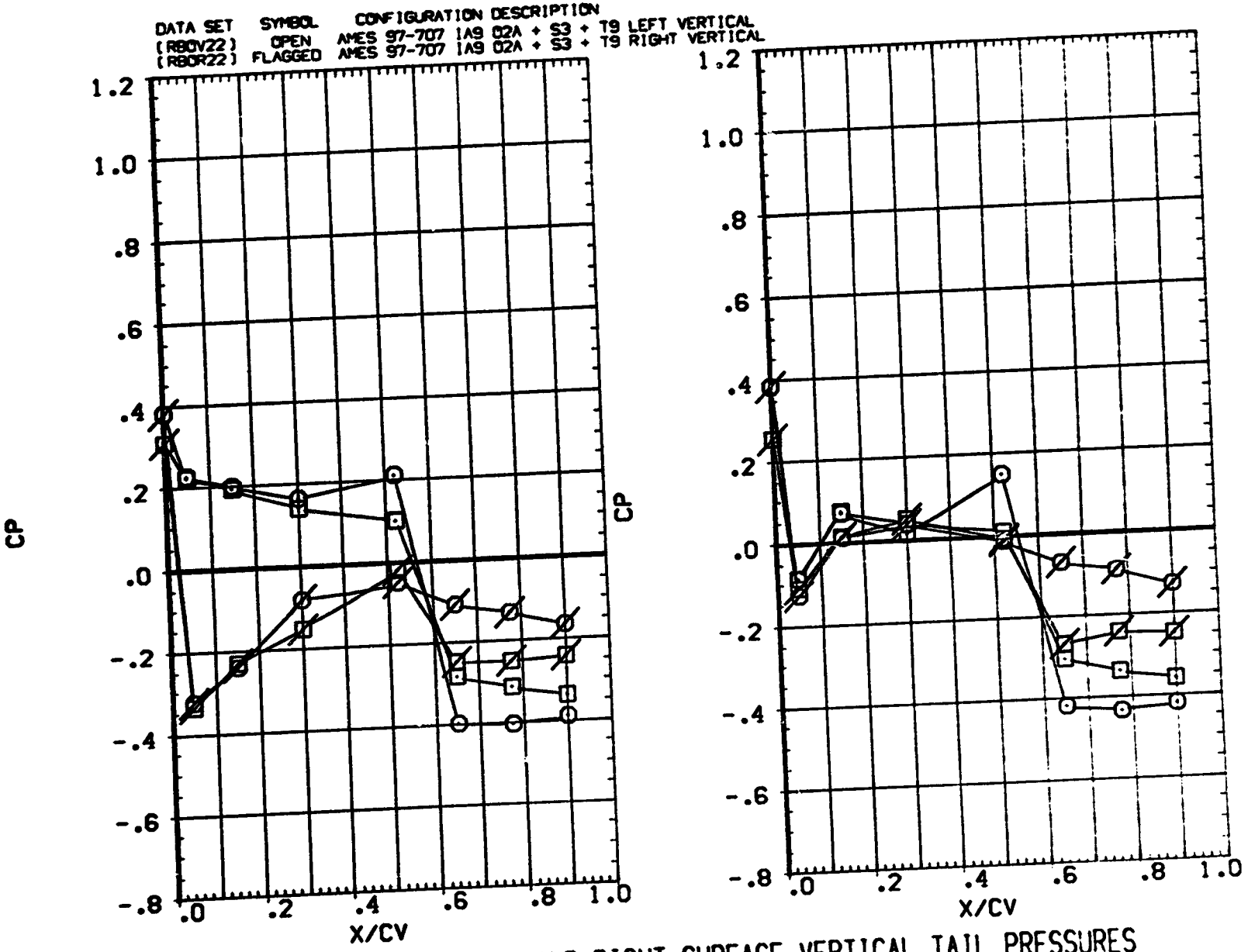
PARAMETRIC VALUES

ALPHAT	8.000	DRBINC	.000
RUDDER	-10.000	ELEVCN	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV22)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR22)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



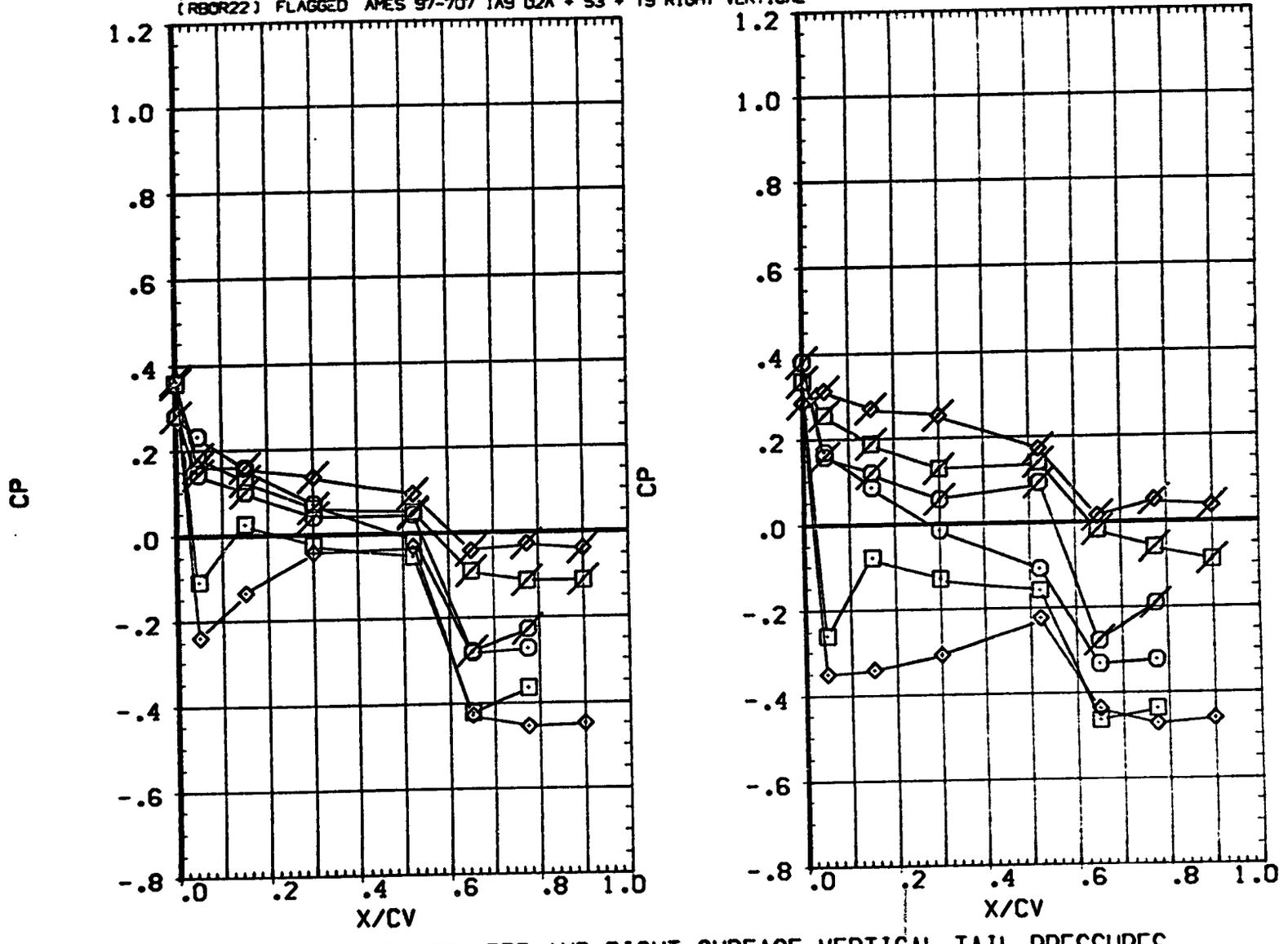
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	3.940	1.555
□	.316	8.120	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.000
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV22)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR22)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



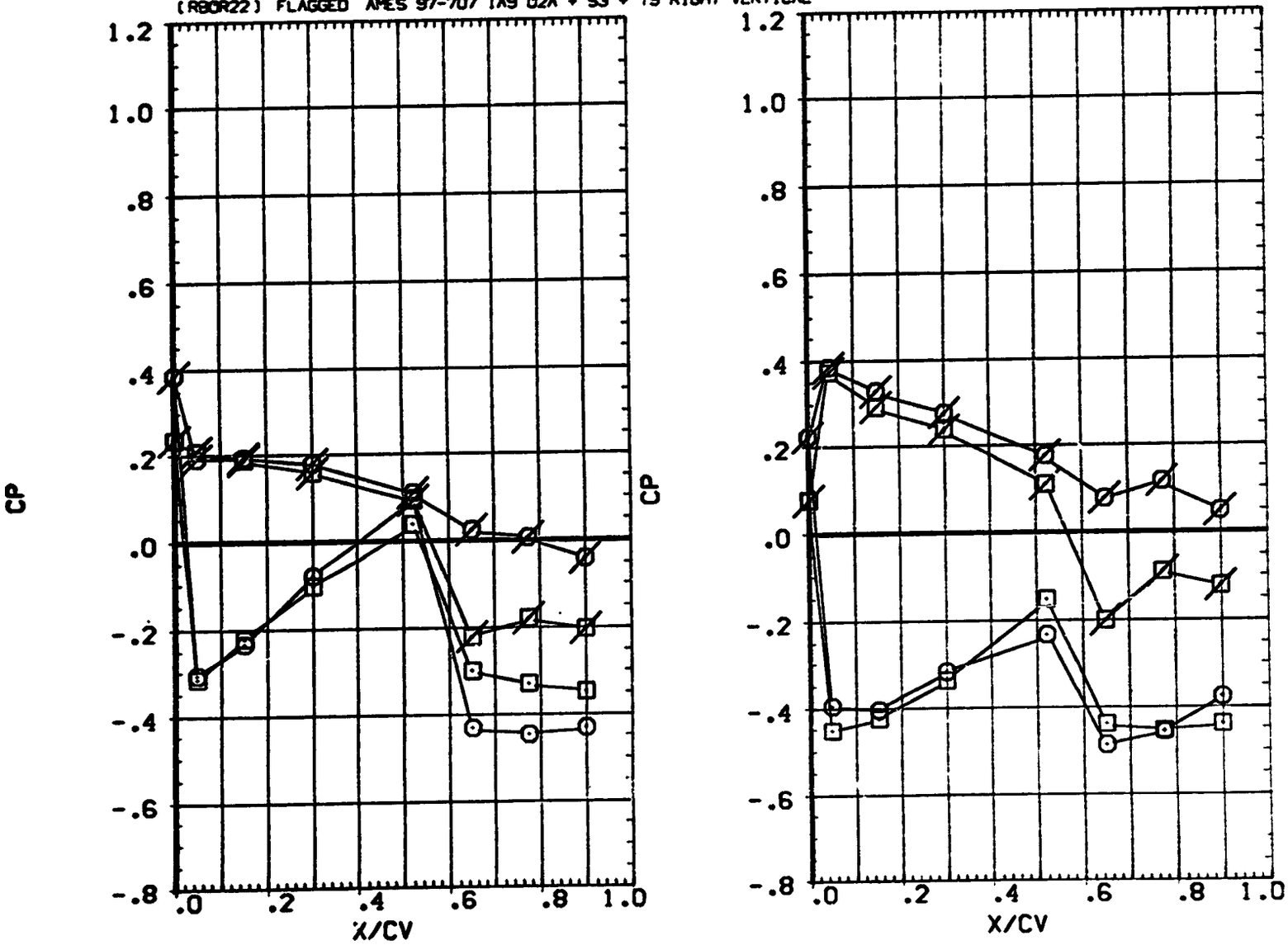
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	3.940	1.555
□	.925	8.120	

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.000
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(R80V22)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(R80R22)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



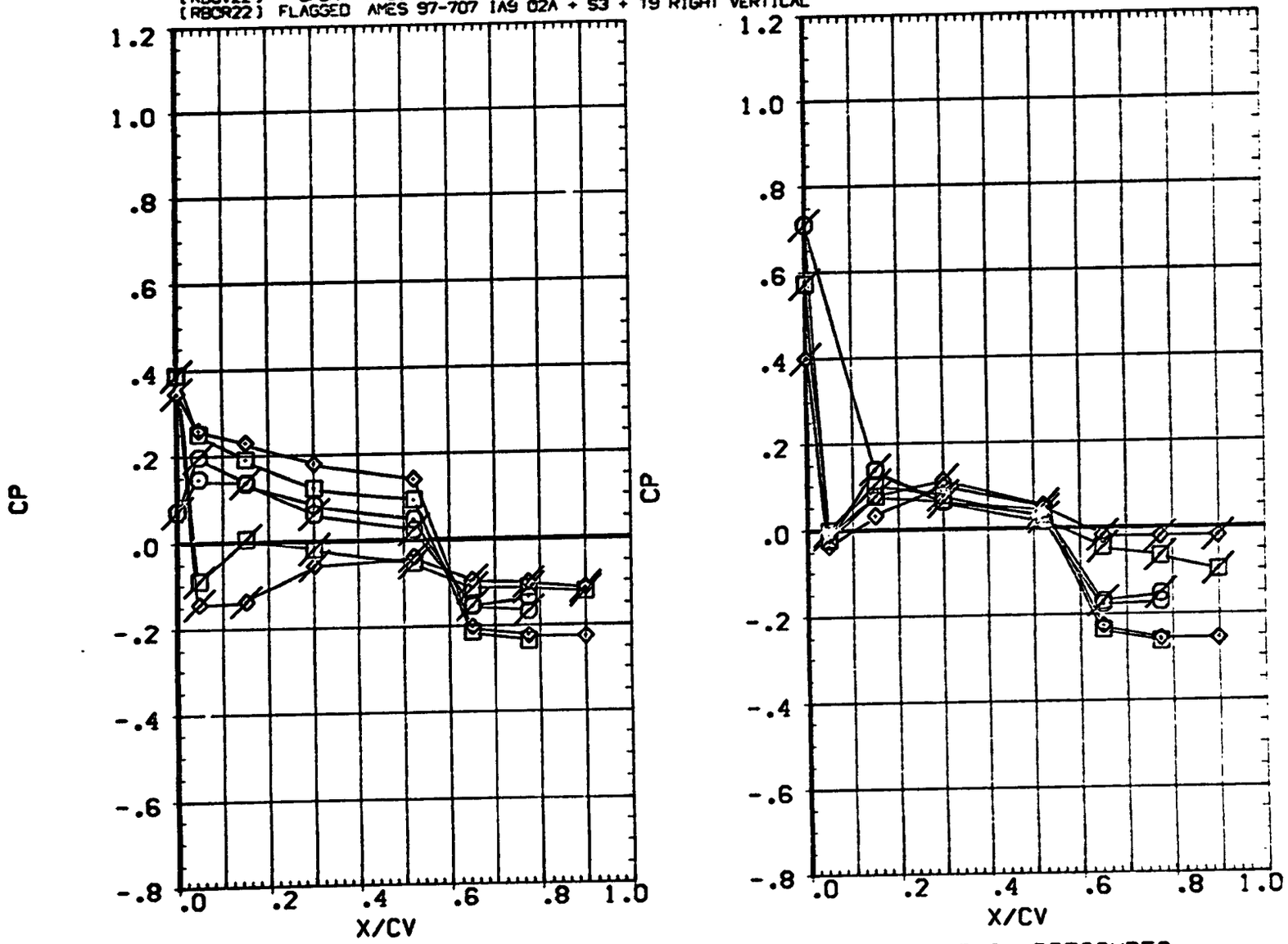
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.220	2.000
□	.316	-.110	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.000
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV22)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR22)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL

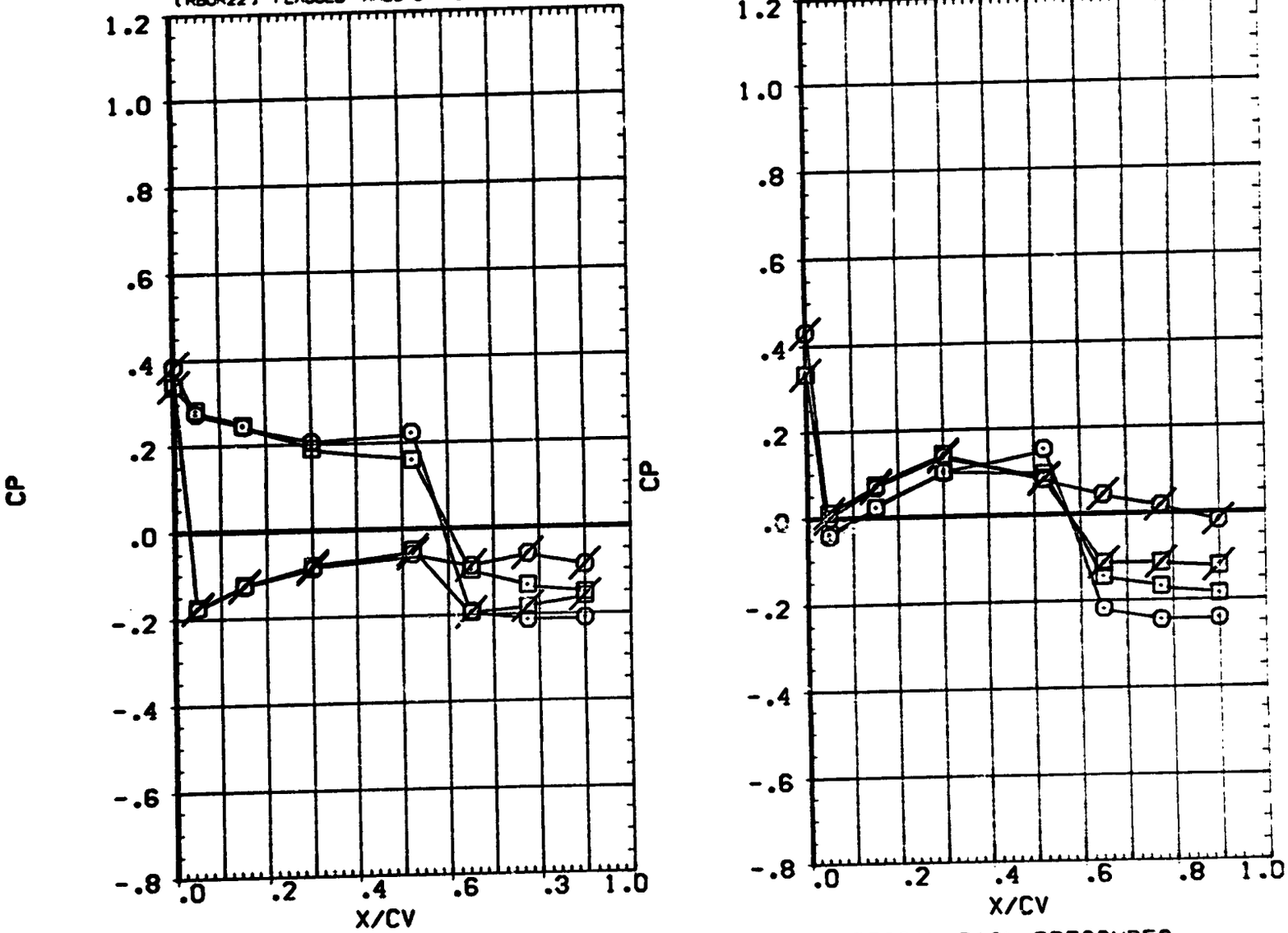


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

○	.840	-4.220	2.000
□	.925	-.110	

RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBOV22) OPEN AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR22) FLAGGED AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



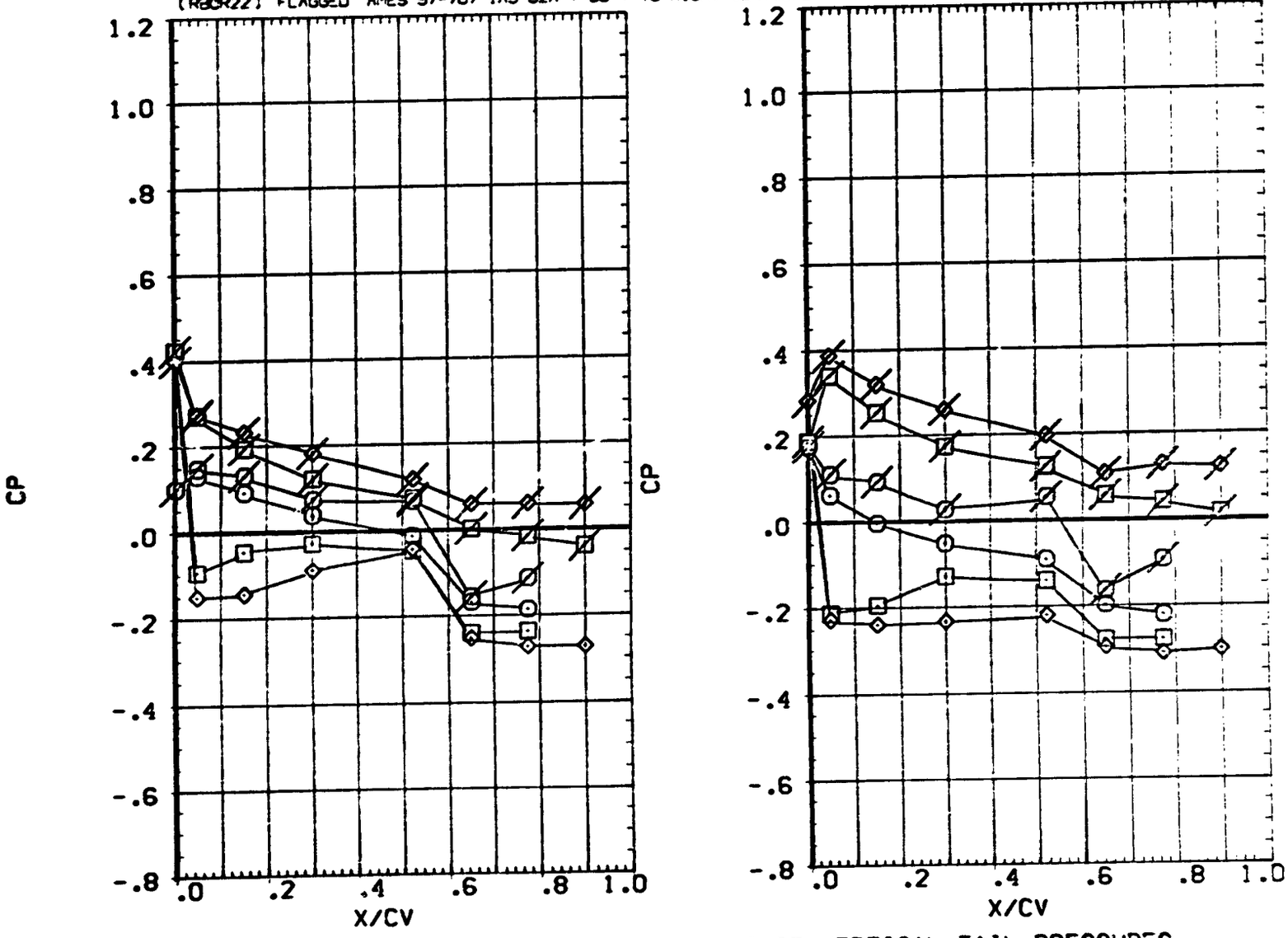
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	4.000	2.000
□	.316	8.110	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	DRBINC	.000
RUDDER	-10.000	ELEVDN	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(R80V22)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(R80R22)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL

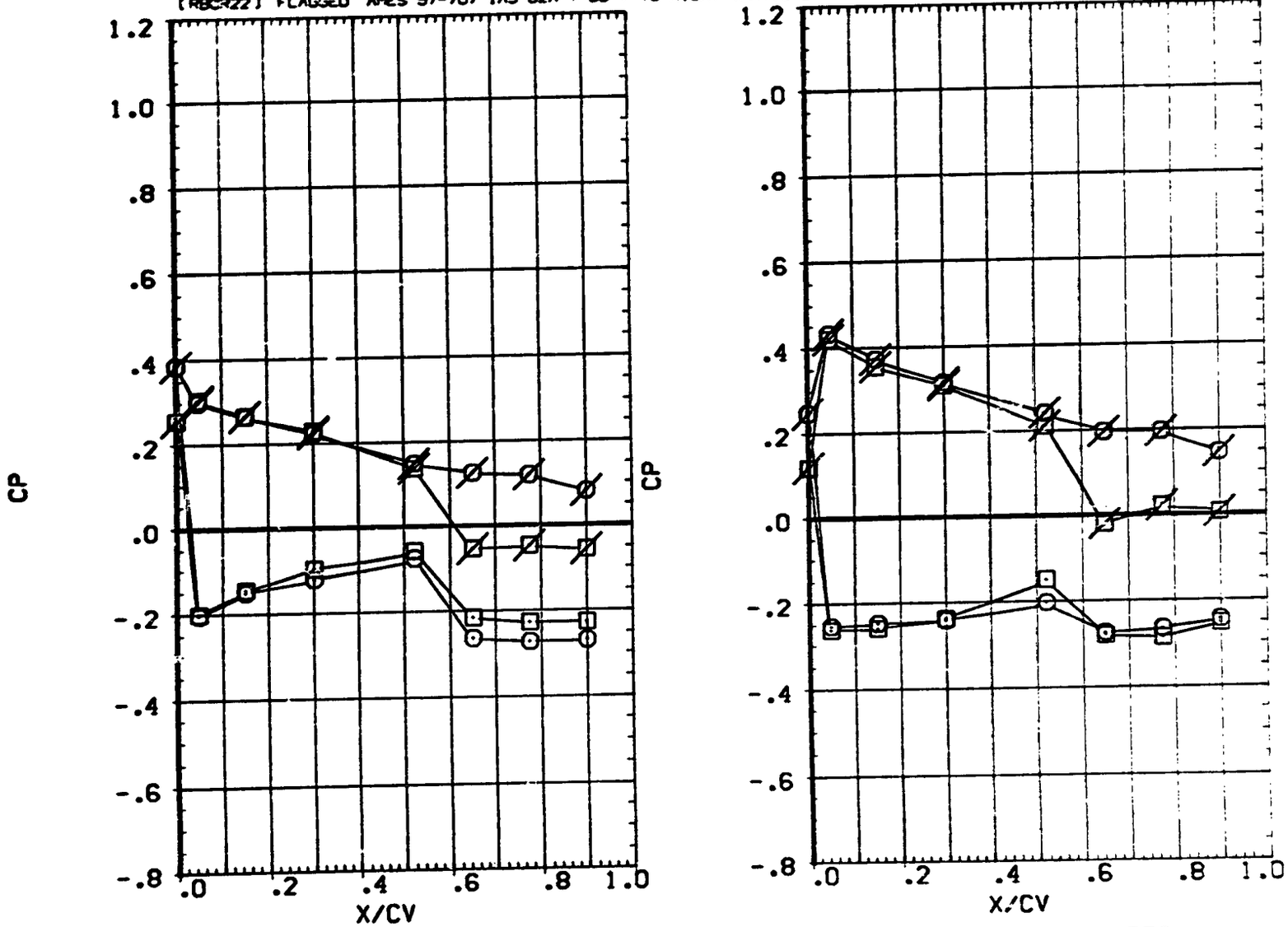


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	4.000	2.000
□	.925	8.110	

ALPHAT	8.000	DRBINC	.000
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBCV22)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBCR22)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



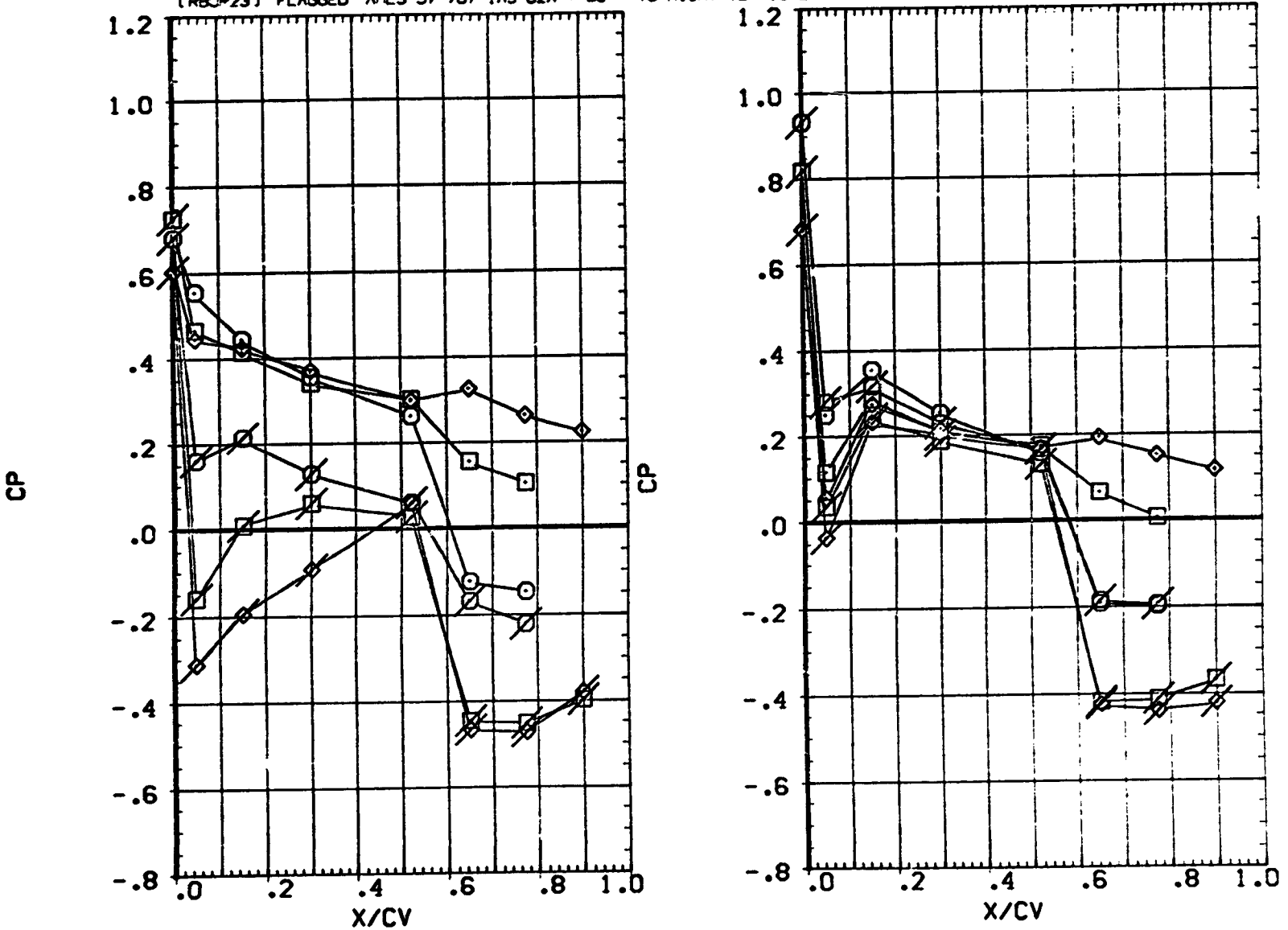
...CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-1.290	1.555
□	.316	-.170	
◇	.600		

PARAMETRIC VALUES

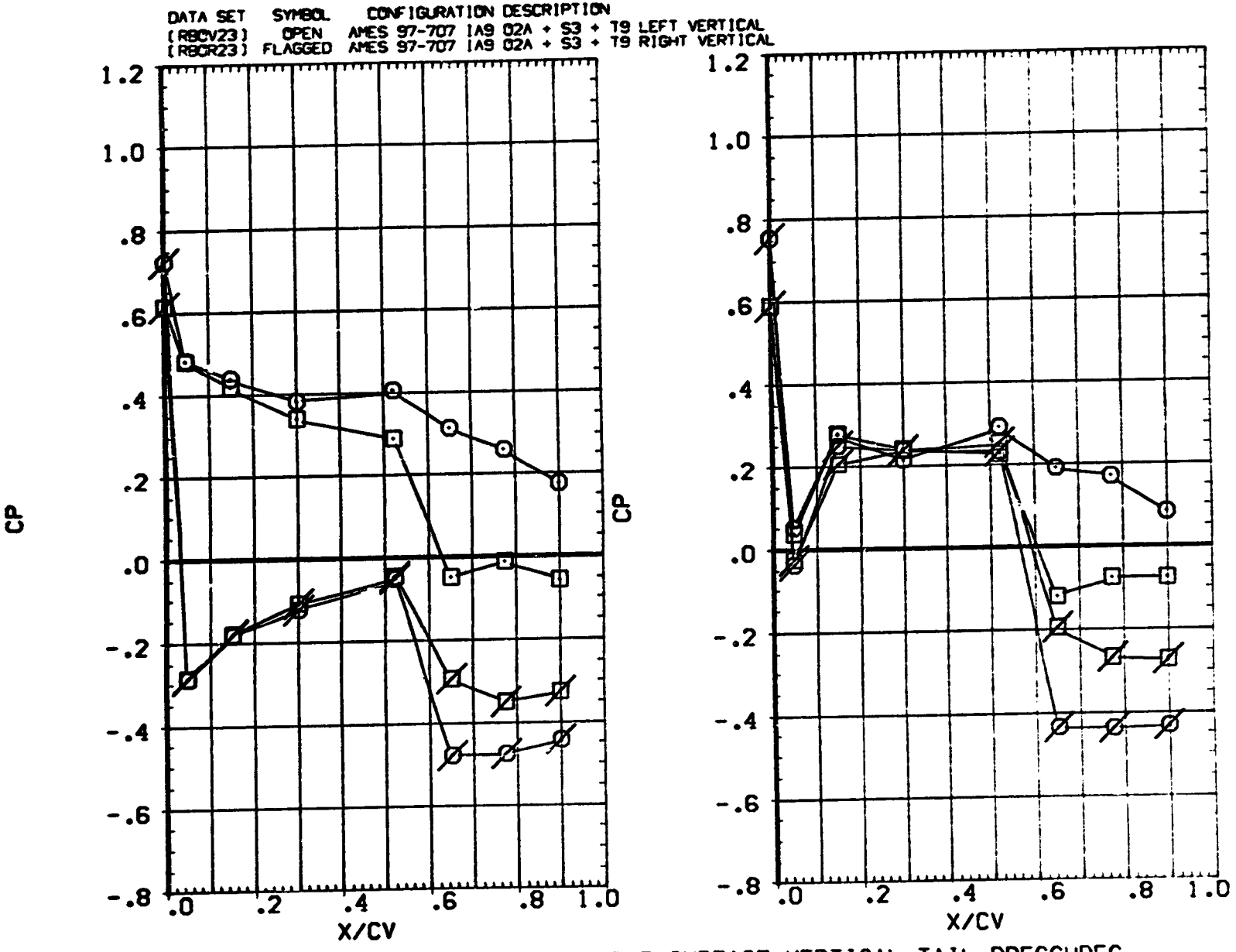
ALPHAT	-8.000	SBINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV23)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOP23)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

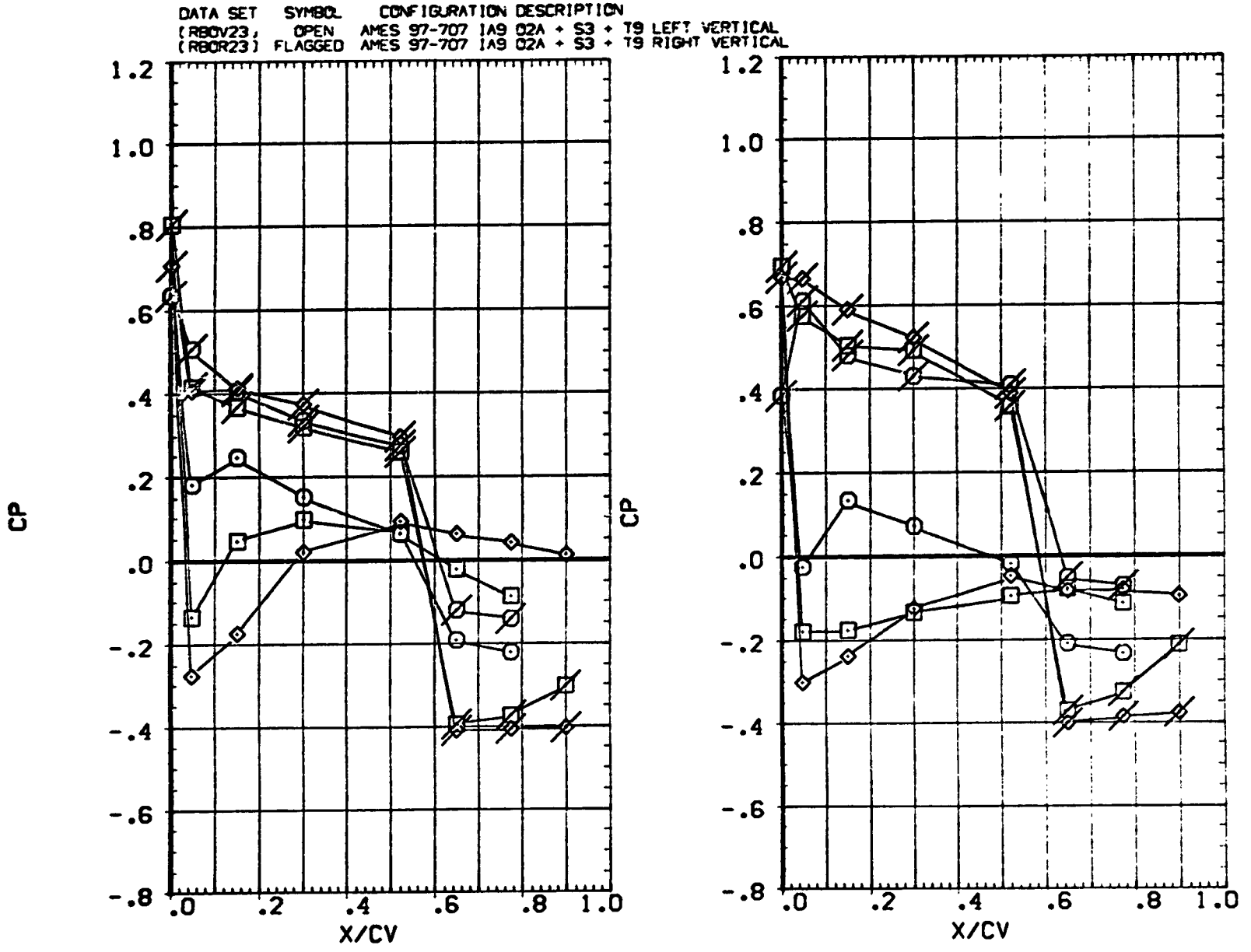
□ .925 -.170 RUDFLR .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

◇ .600

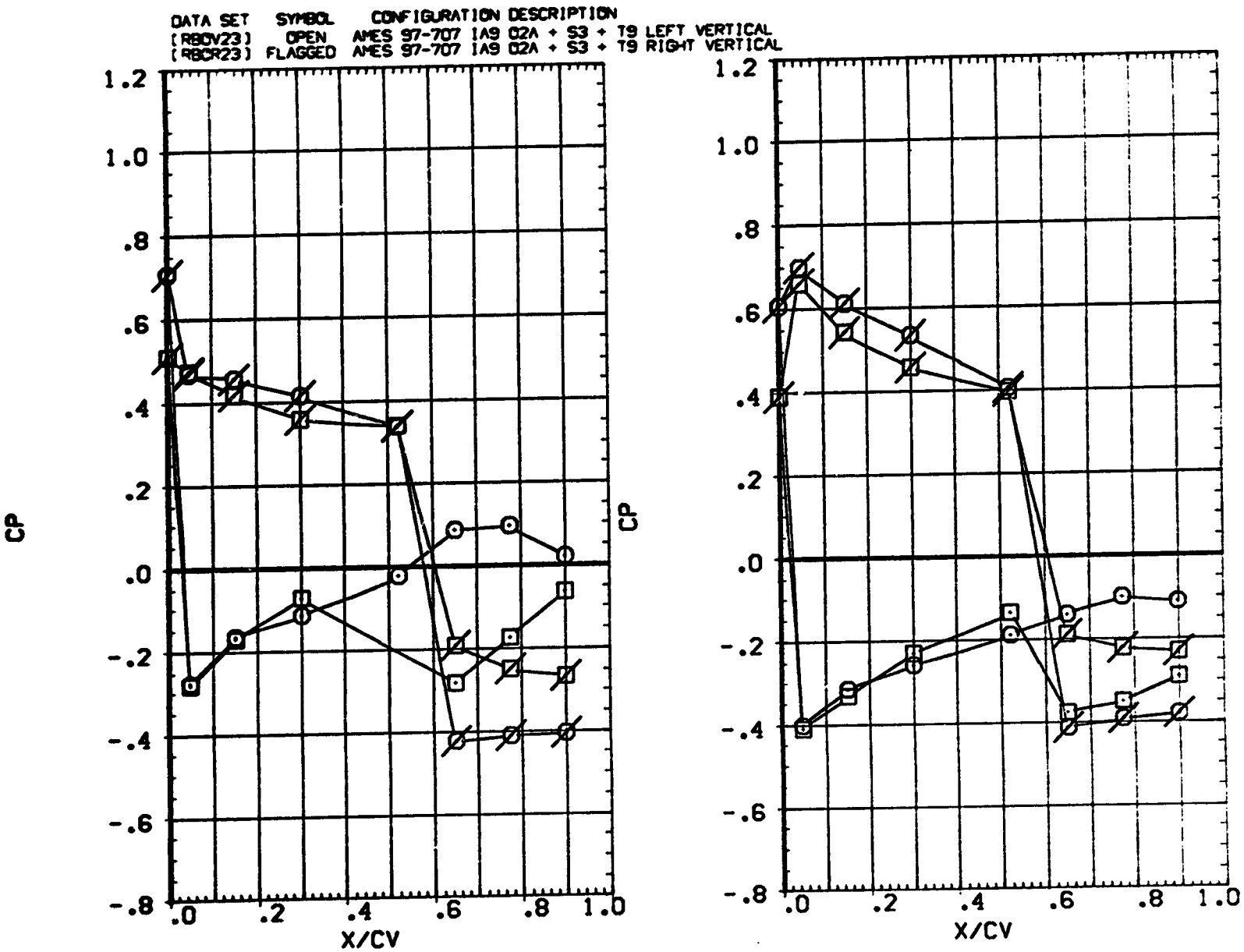
RUDDER 15.000 ELEVSN .000
RUDFLR .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

○	.840	3.940	1.555
□	.925	8.060	

RUDDER	15.000	ELEVON	.000
RUDFLR	.000		



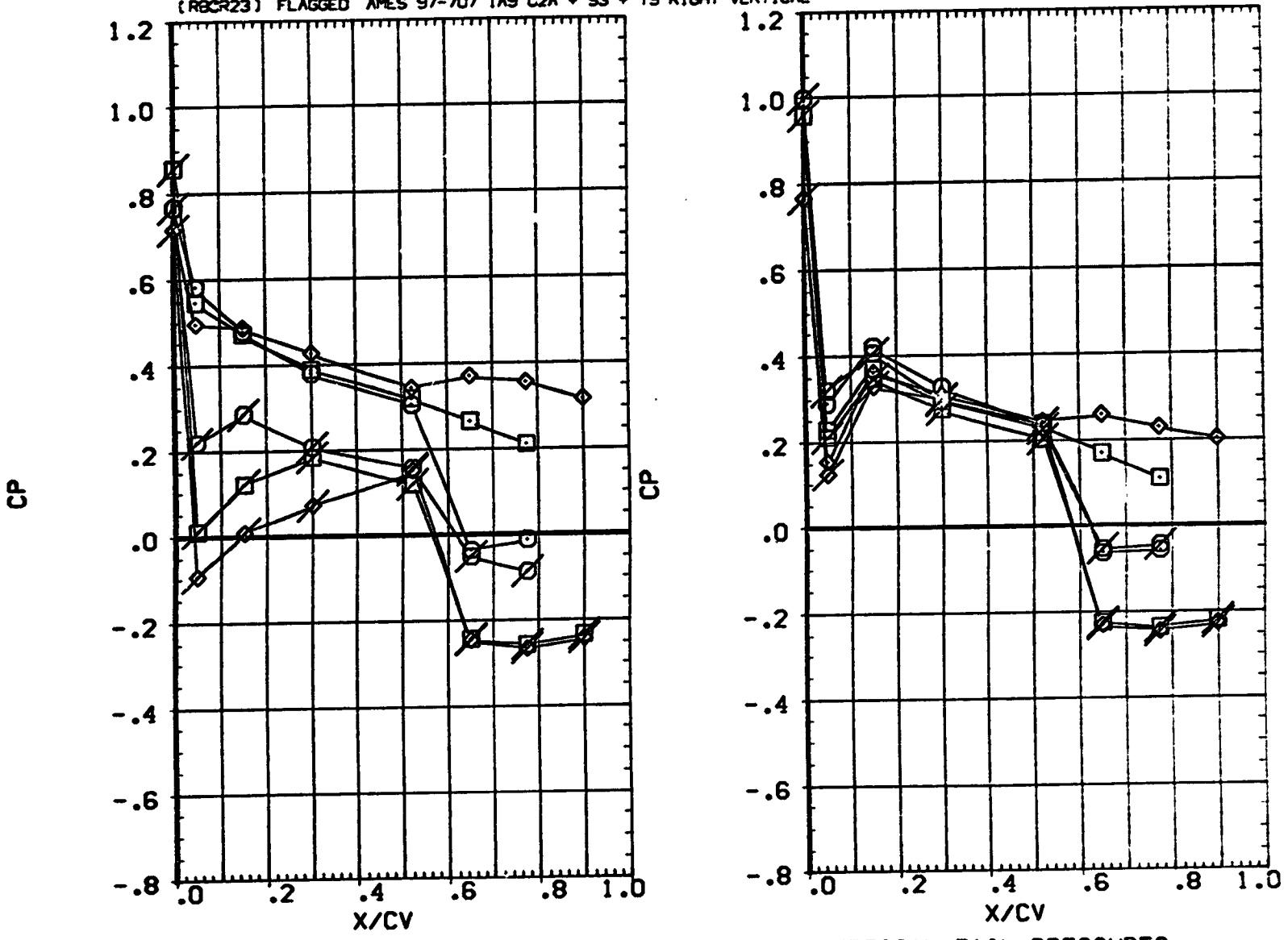
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.280	2.000
□	.316	-.170	
◇	.600		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV23)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBCR23)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



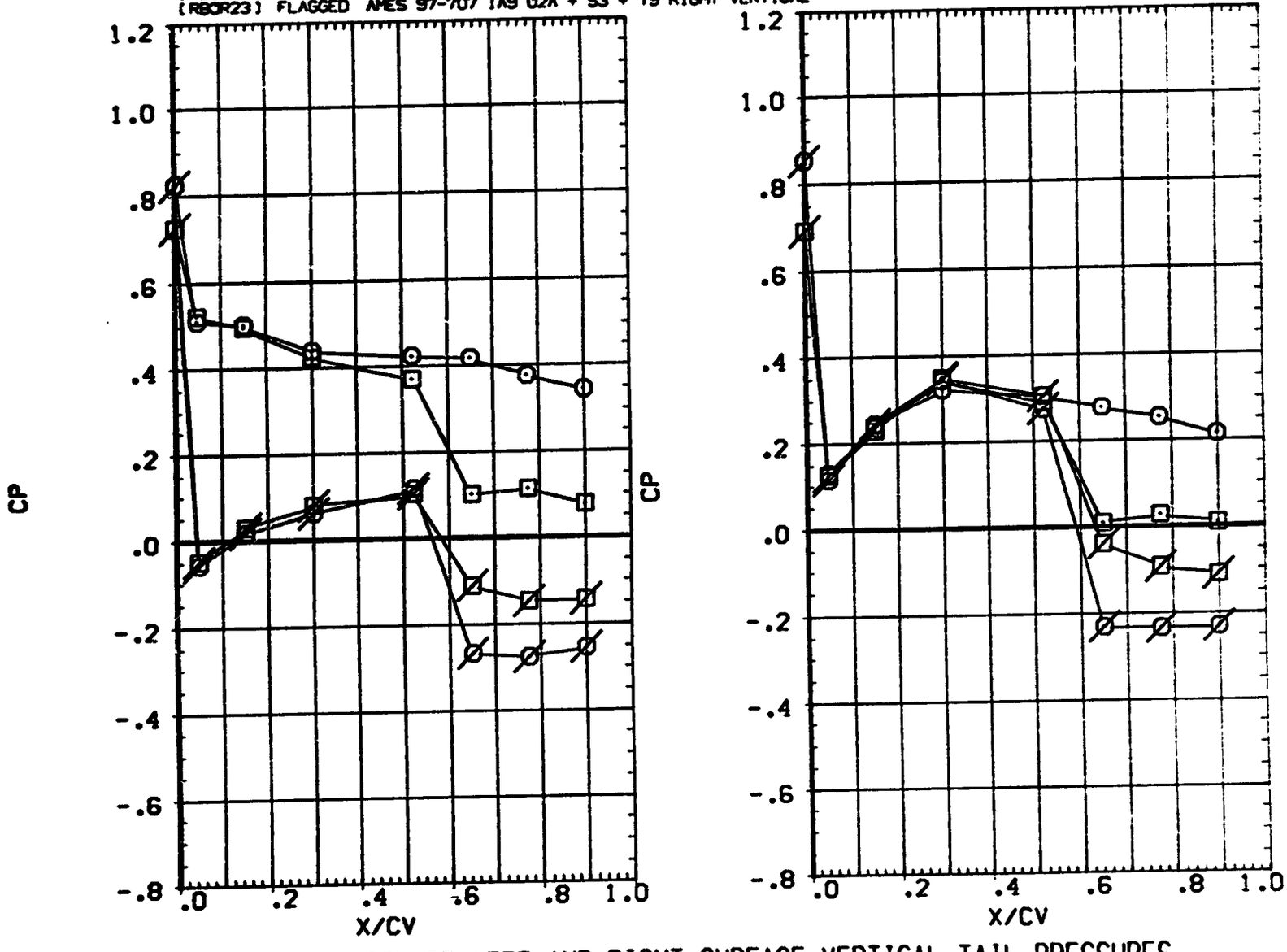
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-4.280	2.000
□	.925	-.170	

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.000
RUDDER	15.000	ELEVCN	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV23)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR23)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



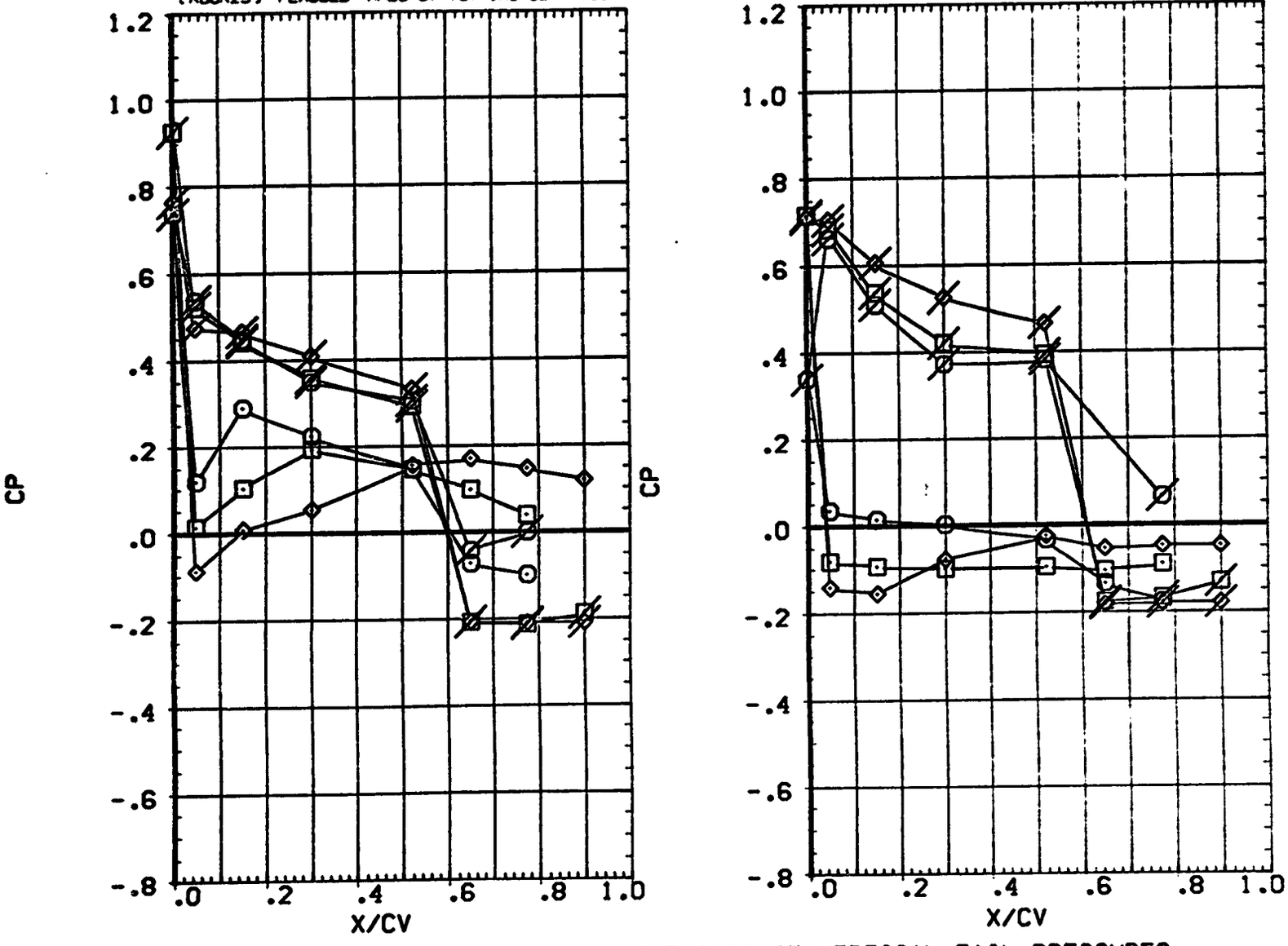
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	3.930	2.000
□	.316	8.040	
◇	.600		

PARAMETRIC VALUES

ALPHAT	-8.000	DRBINC	.000
RUDDER	15.000	ELEVCN	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV23)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR23)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



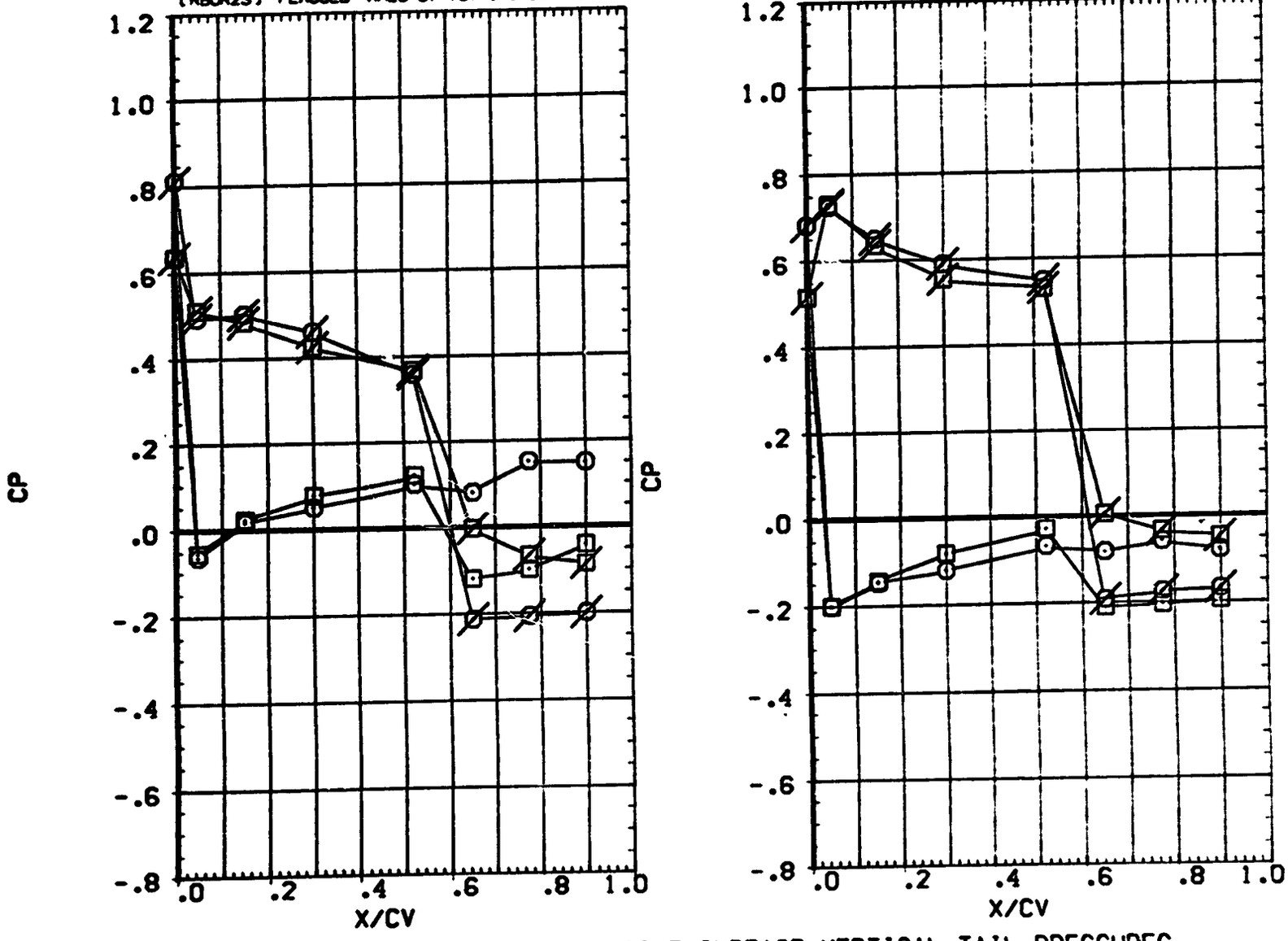
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	3.930	2.000
□	.925	8.040	

PARAMETRIC VALUES

ALPHAT	-8.000	DRBINC	.000
RUDDER	15.000	ELEVDN	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV23)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR23)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



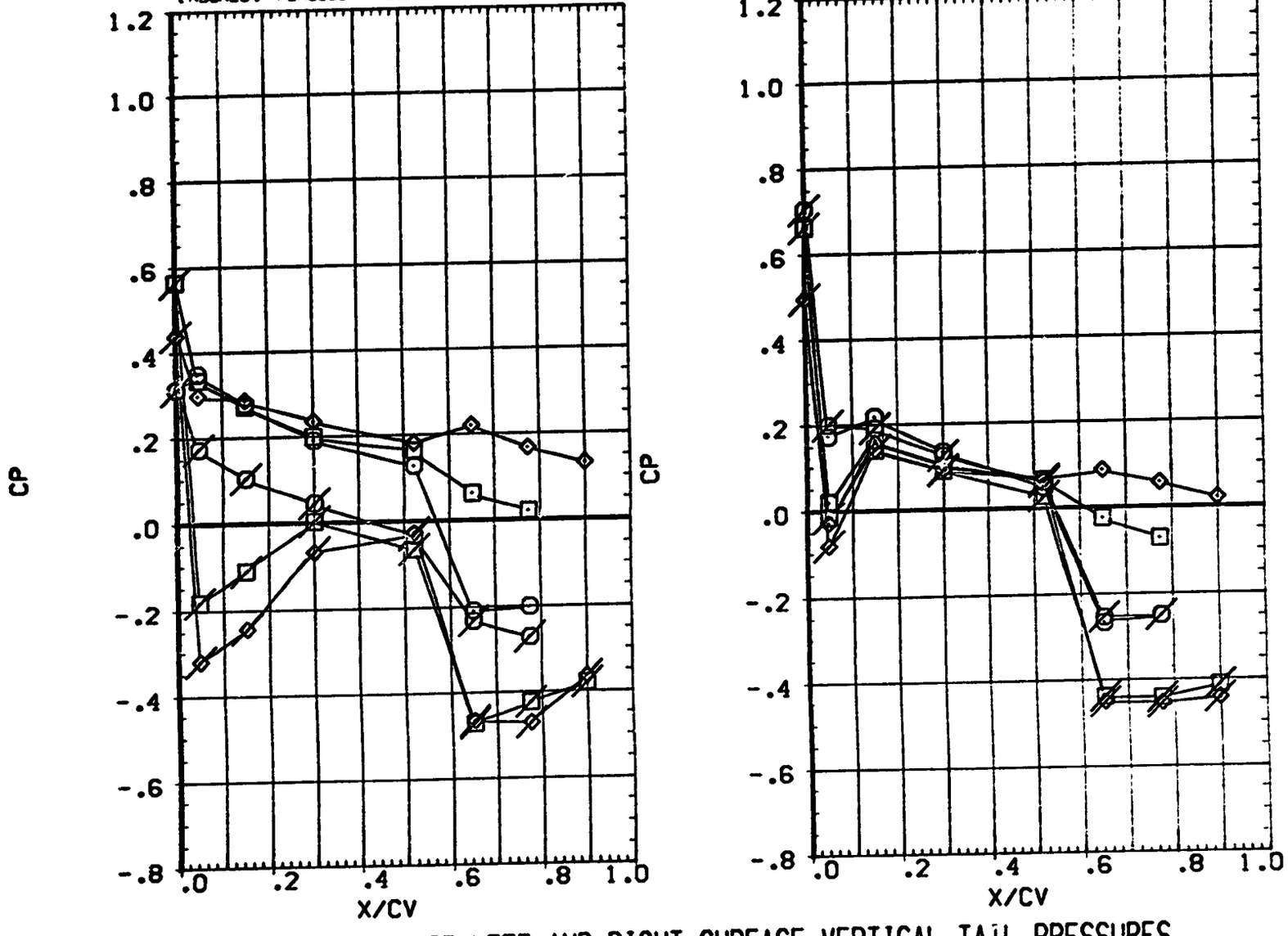
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.240	1.555
□	.316	-.130	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV25)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR25)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



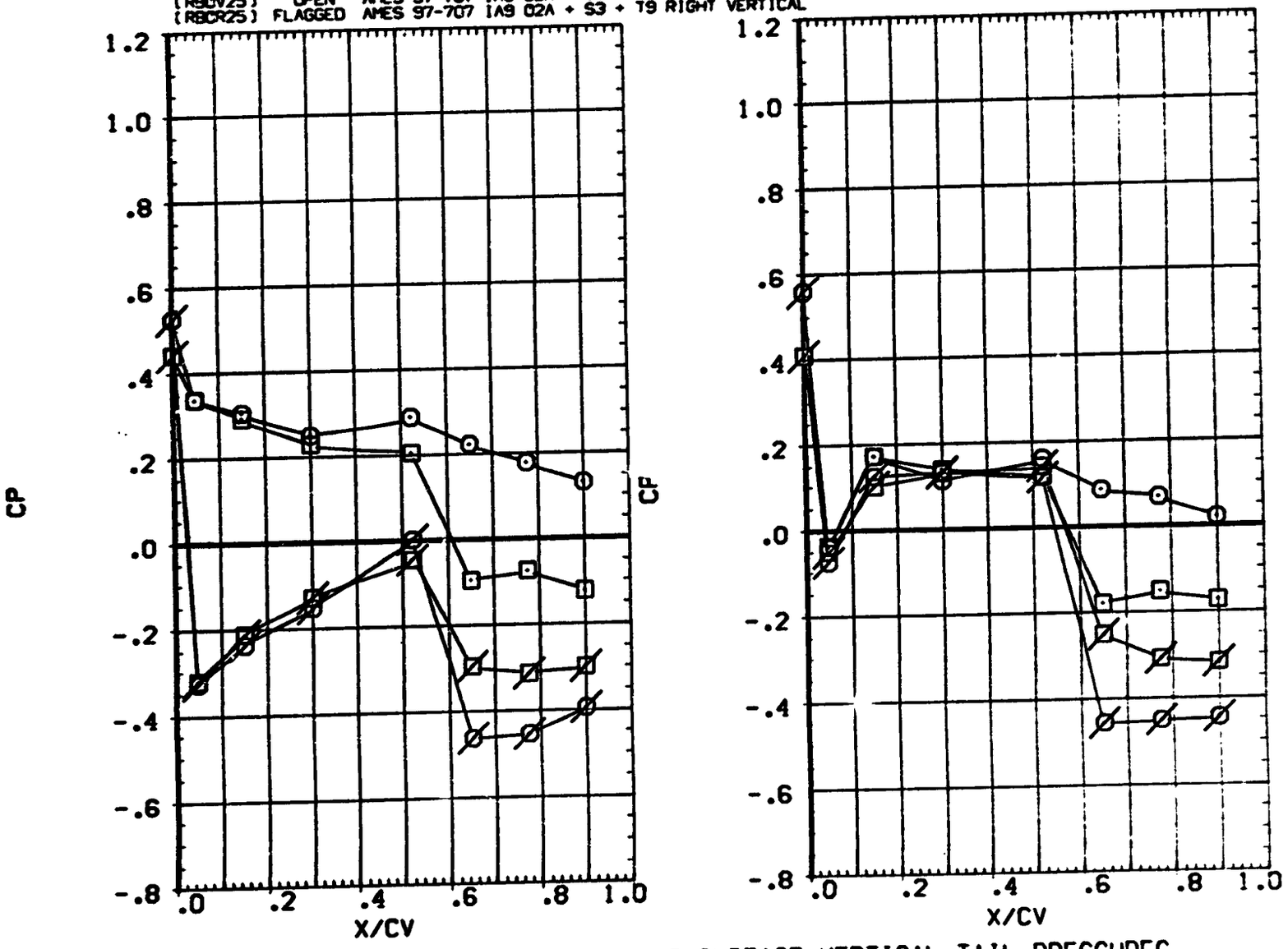
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-4.240	1.555
□	.925	-.130	

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV25)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR25)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



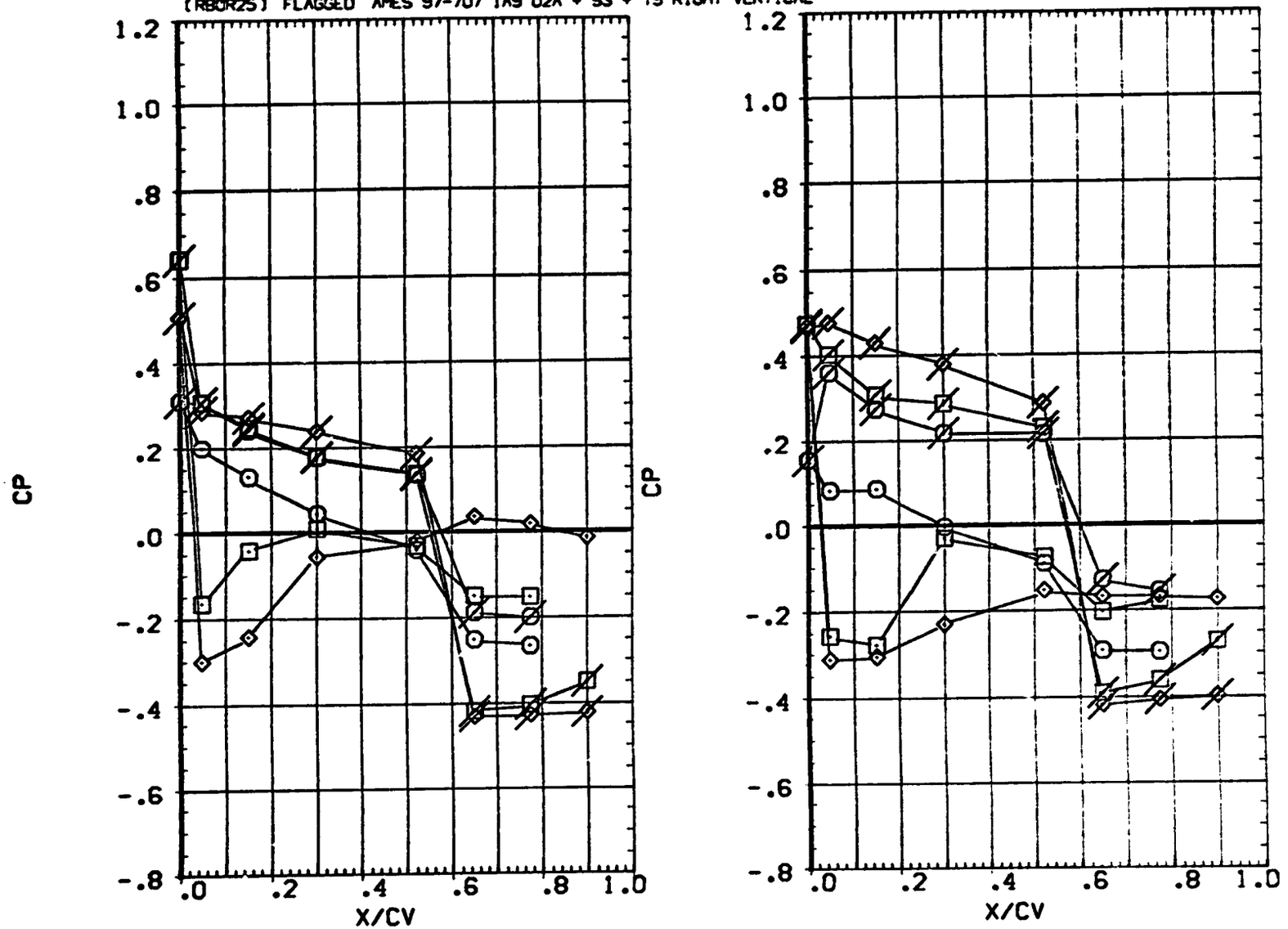
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	3.950	1.555
□	.316	8.040	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV25)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR25)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL

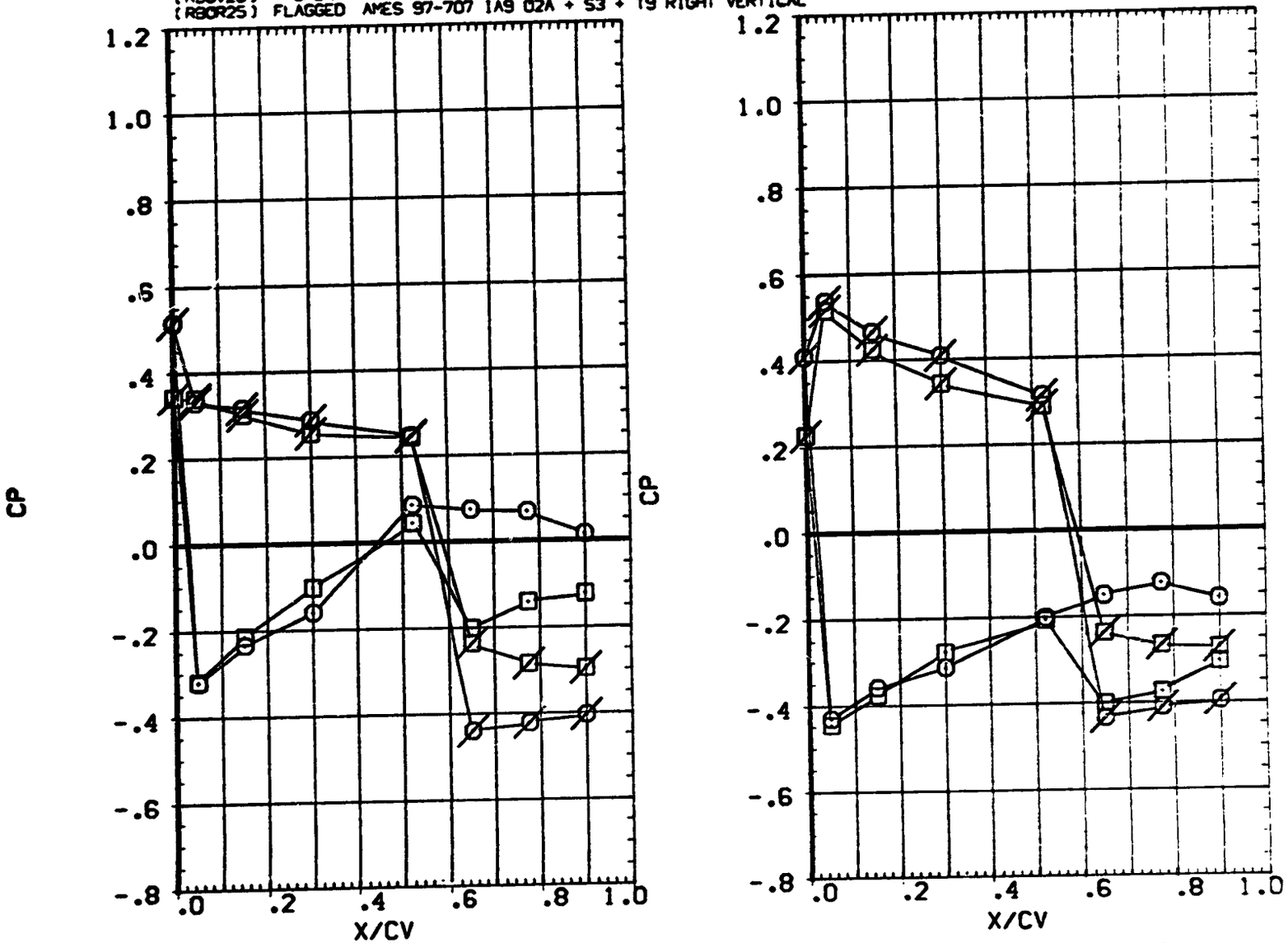


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	3.950	1.555
□	.925	8.040	

ALPHAT	.000	ORBINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV25)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR25)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



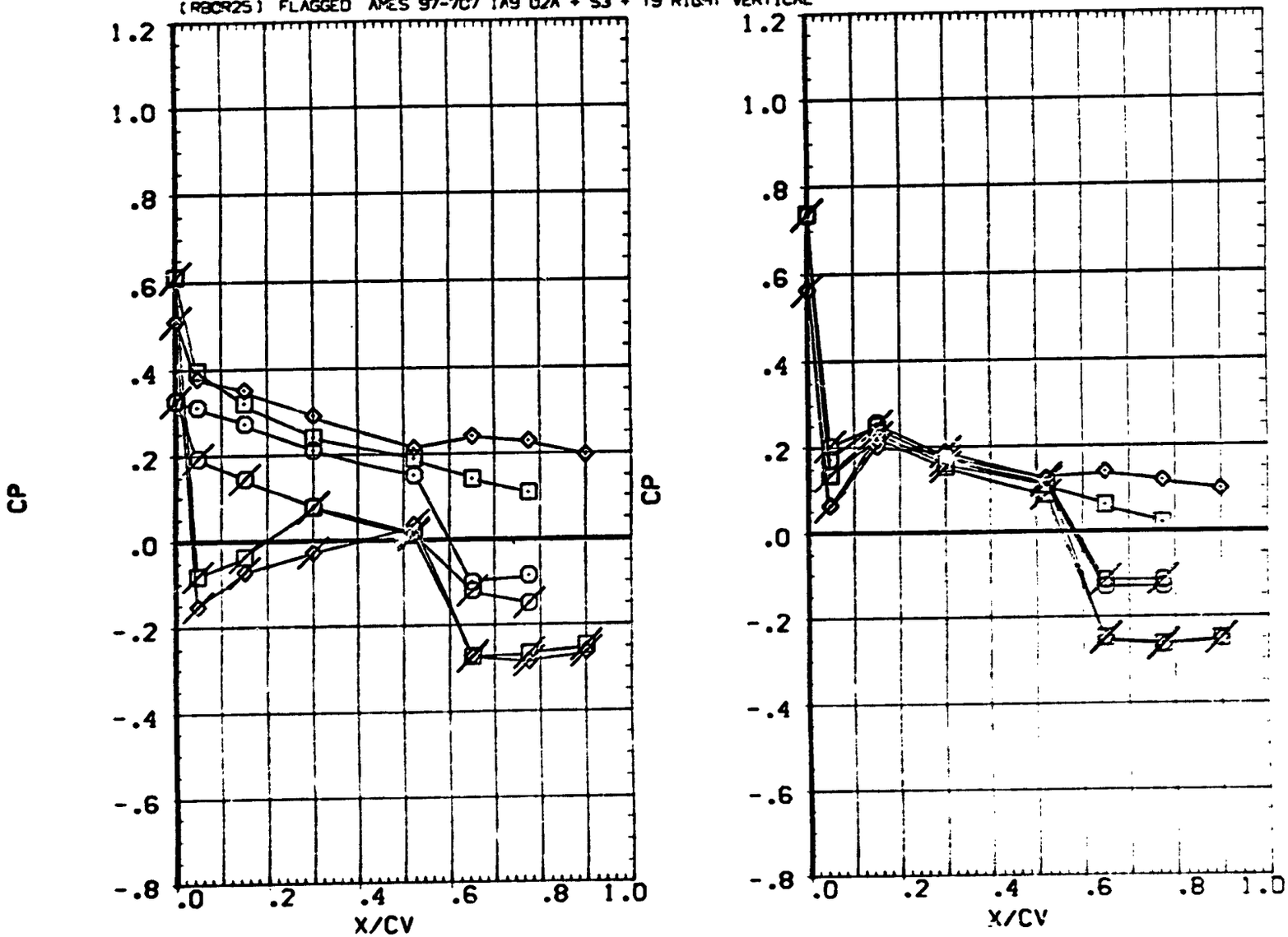
- CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.210	2.000
□	.316	-.140	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBOV25) OPEN AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBCR25) FLAGGED AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



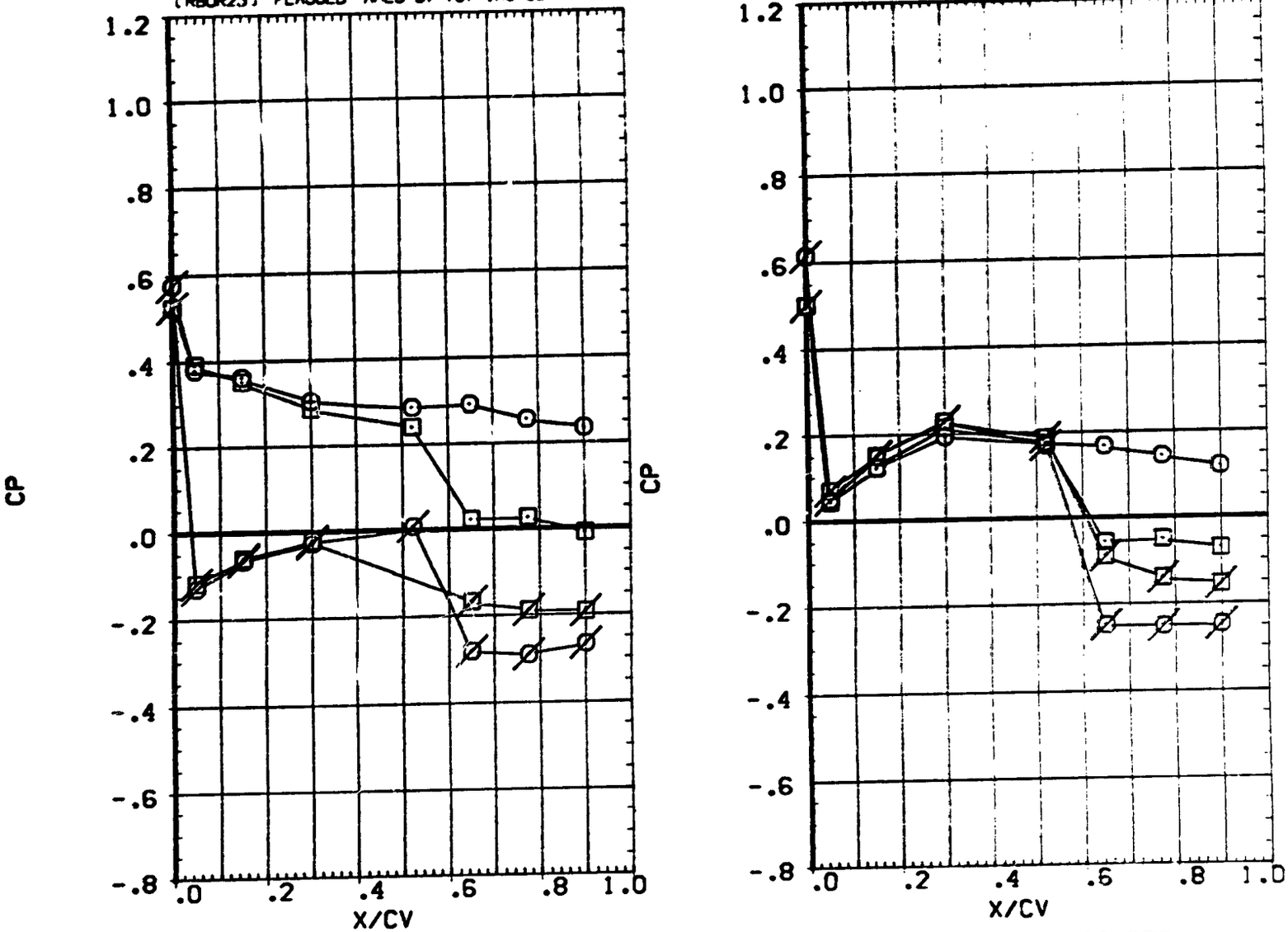
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-4.210	2.000
□	.925	-.140	

PARAMETRIC VALUES

ALPHAT	.000	SRBINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV25)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOR25)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL

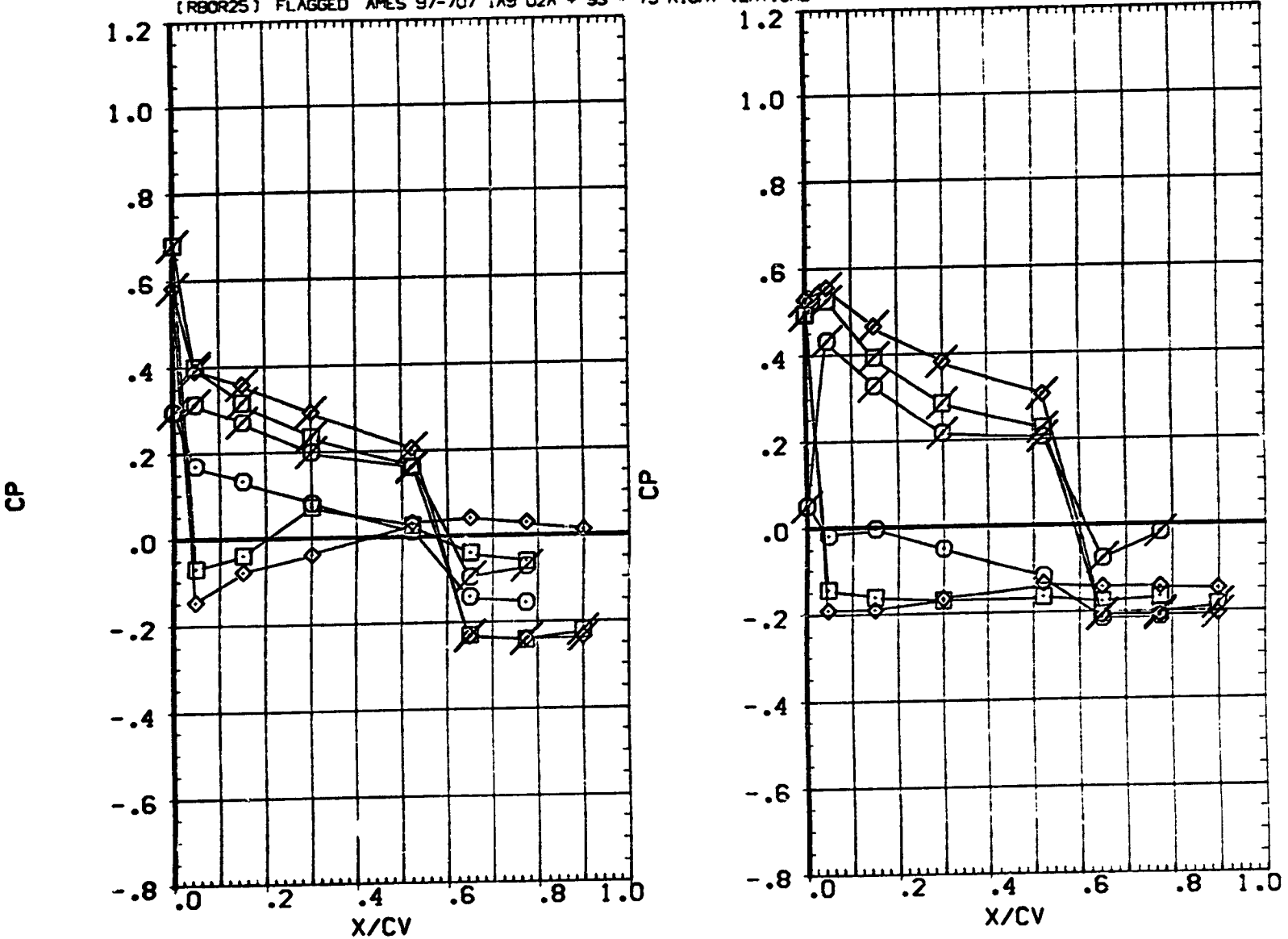


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	3.950	2.000
□	.316	8.020	
◇	.600		

ALPHAT	.000	ORBINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(R80V25)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(R80R25)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL

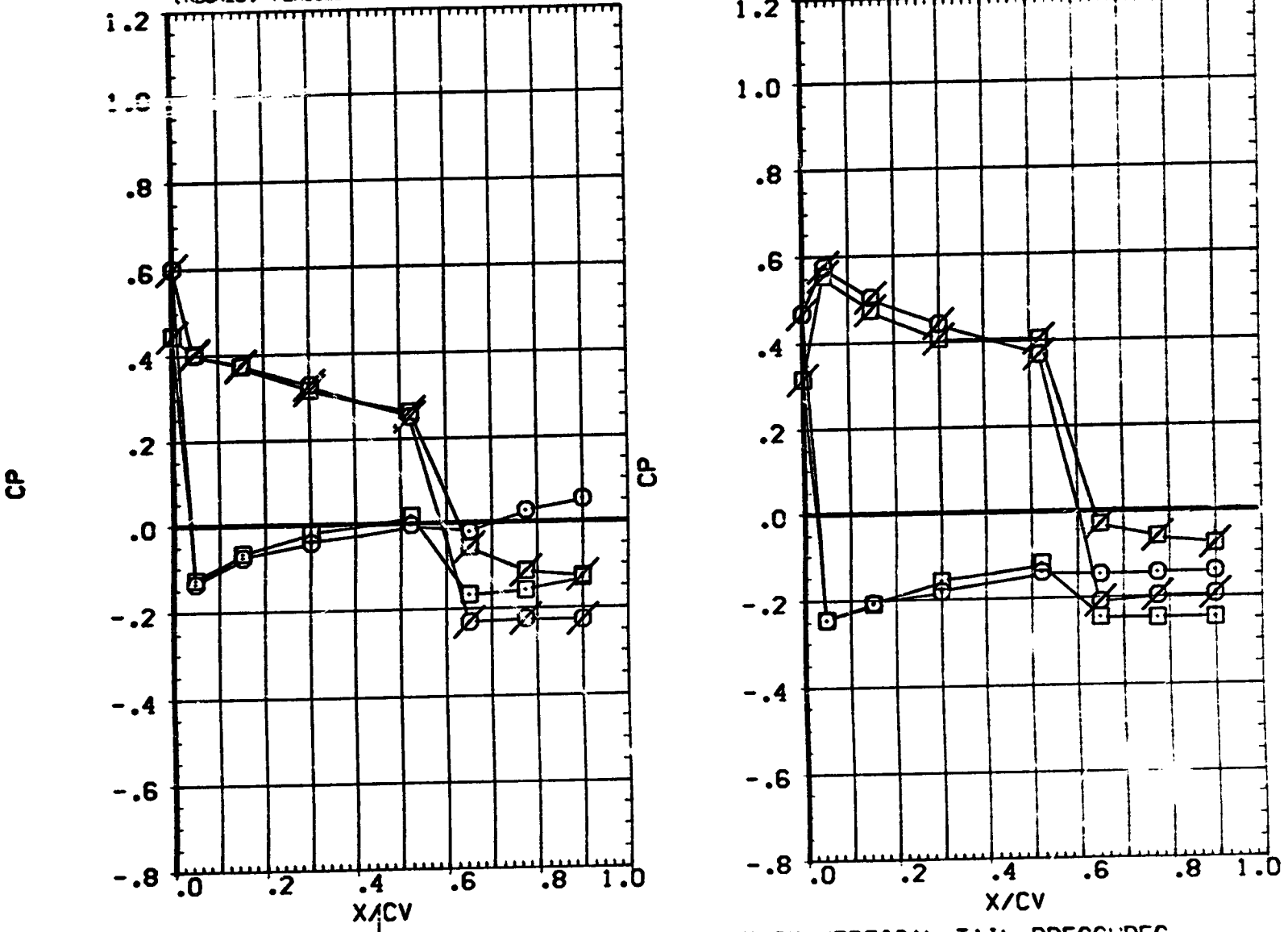


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	3.950	2.000
□	.925	8.020	

ALPHAT	.000	ORGINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV25)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR25)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL

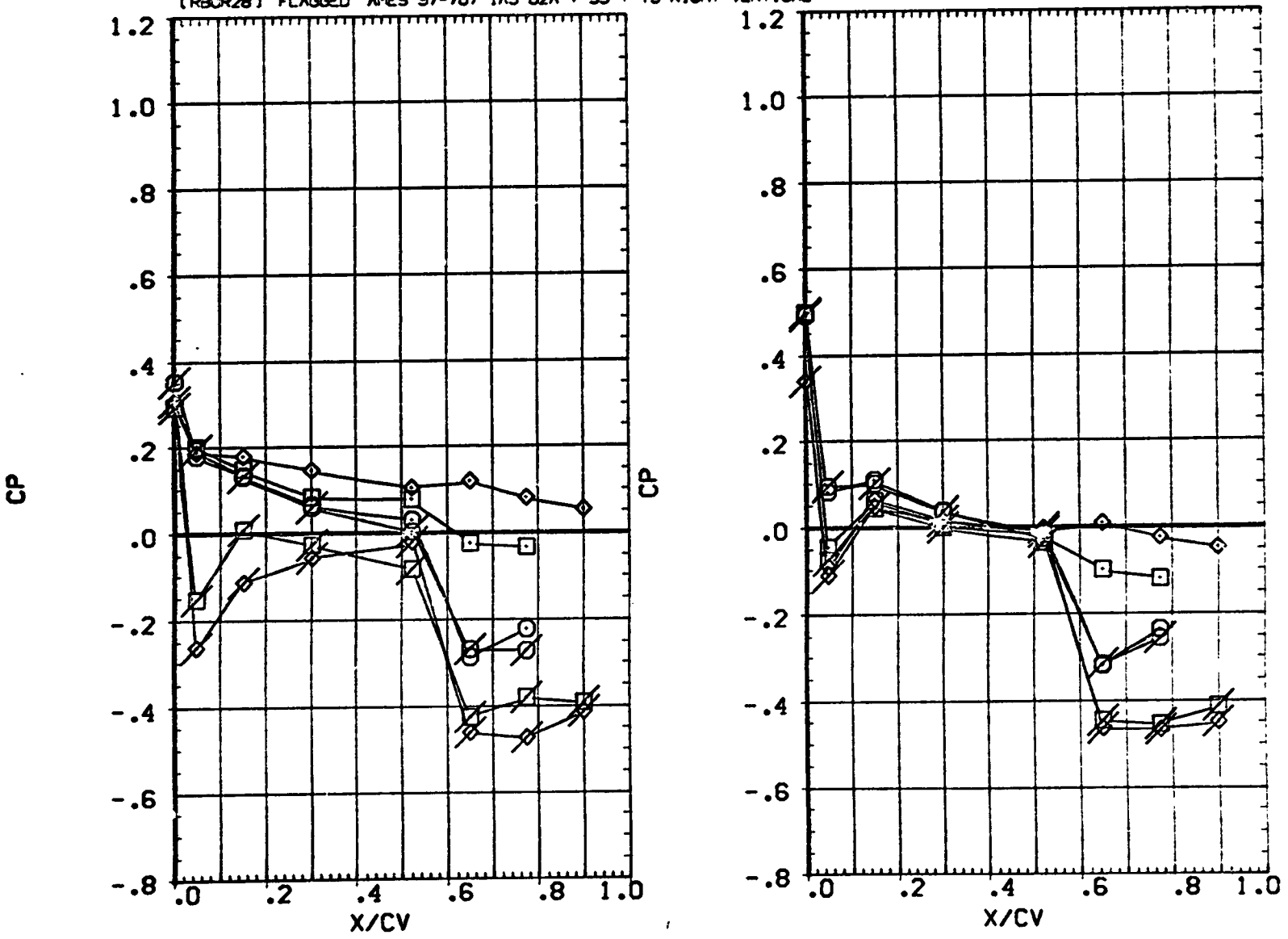


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

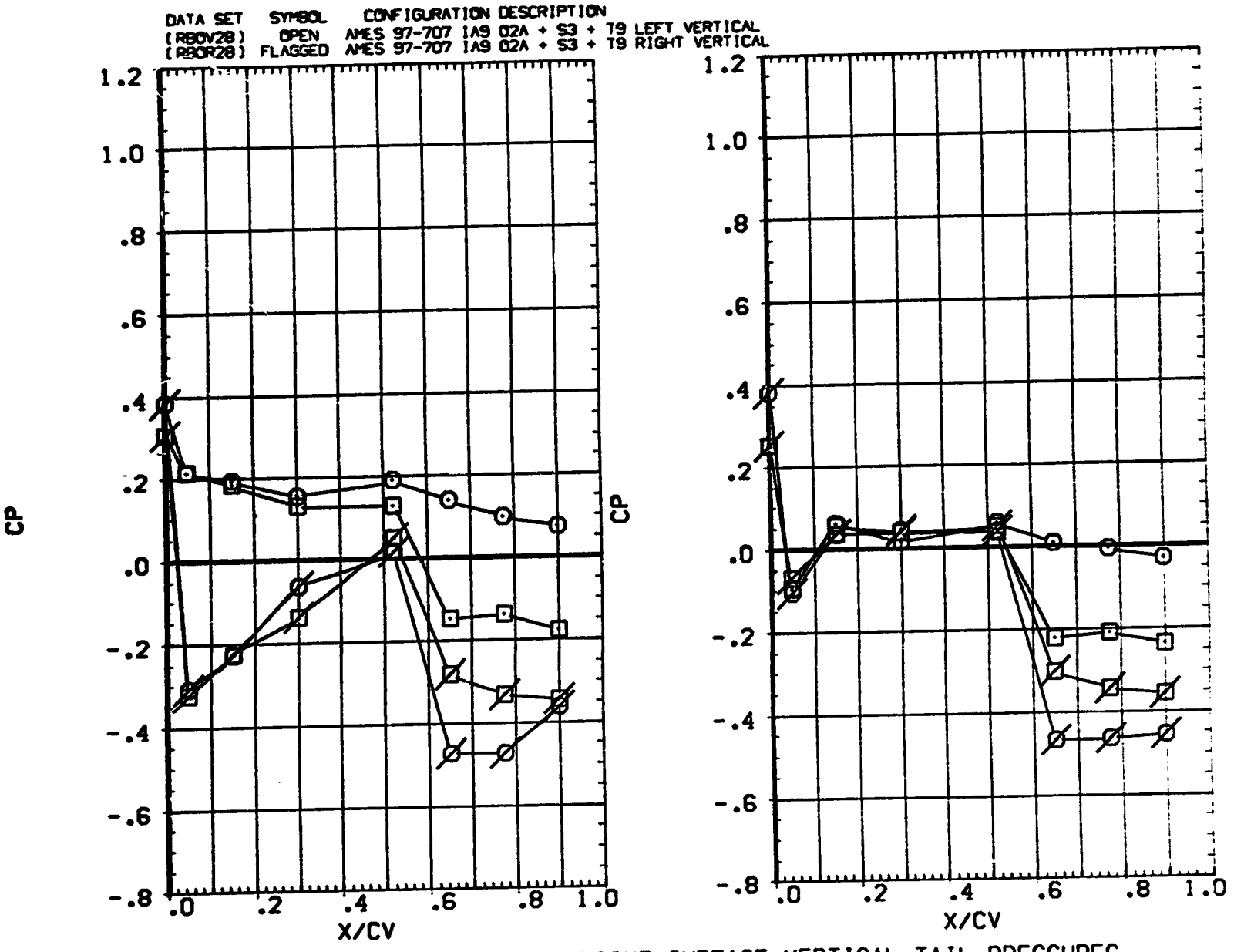
SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.230	1.555
□	.316	-.110	
◇	.600		

ALPHAT	8.000	ORBINC	.000
RUDDER	15.000	ELEVCN	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(R80V28)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(R80R28)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



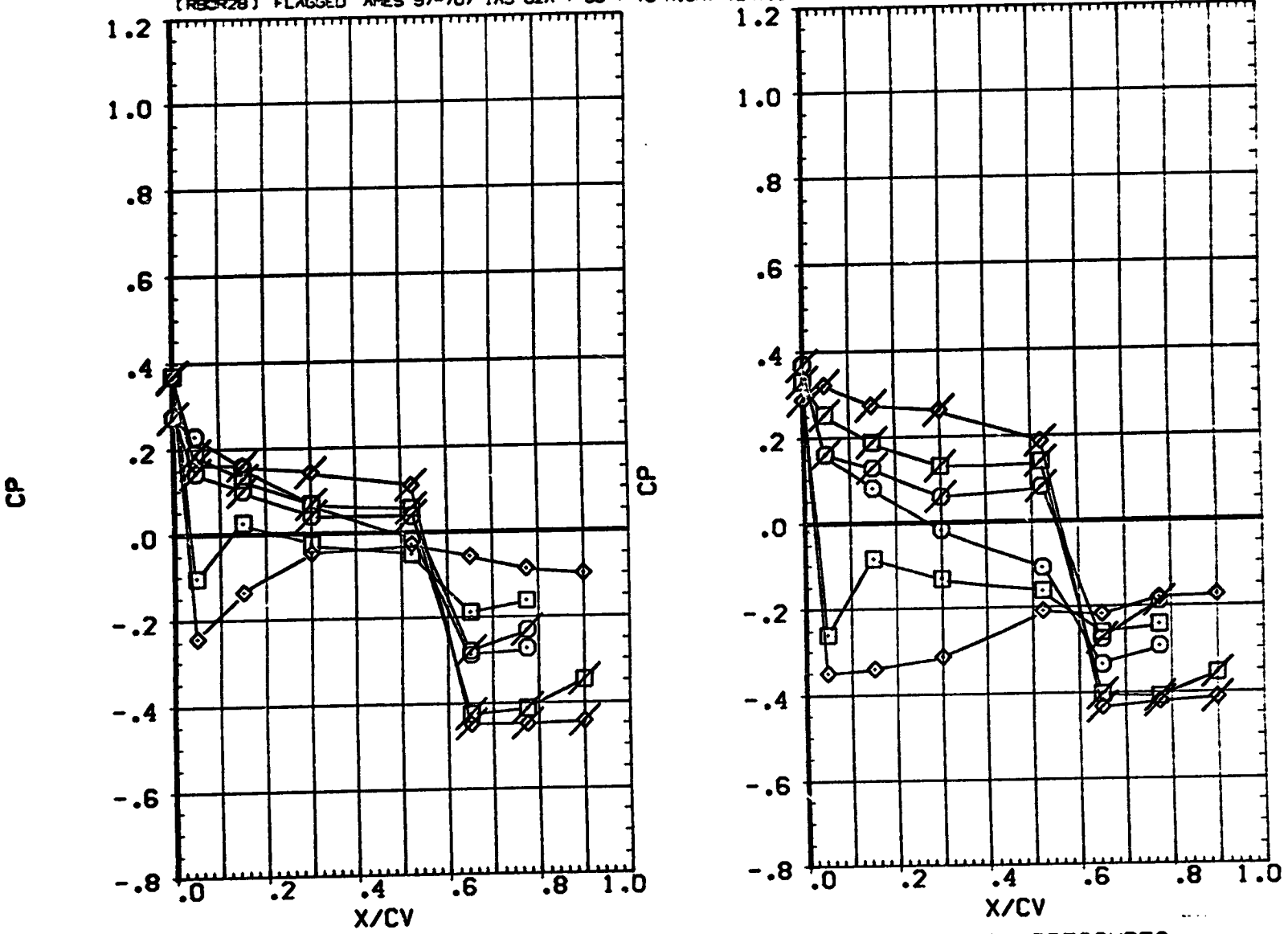
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	4.000	1.555
□	.316	8.130	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV28)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR28)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL

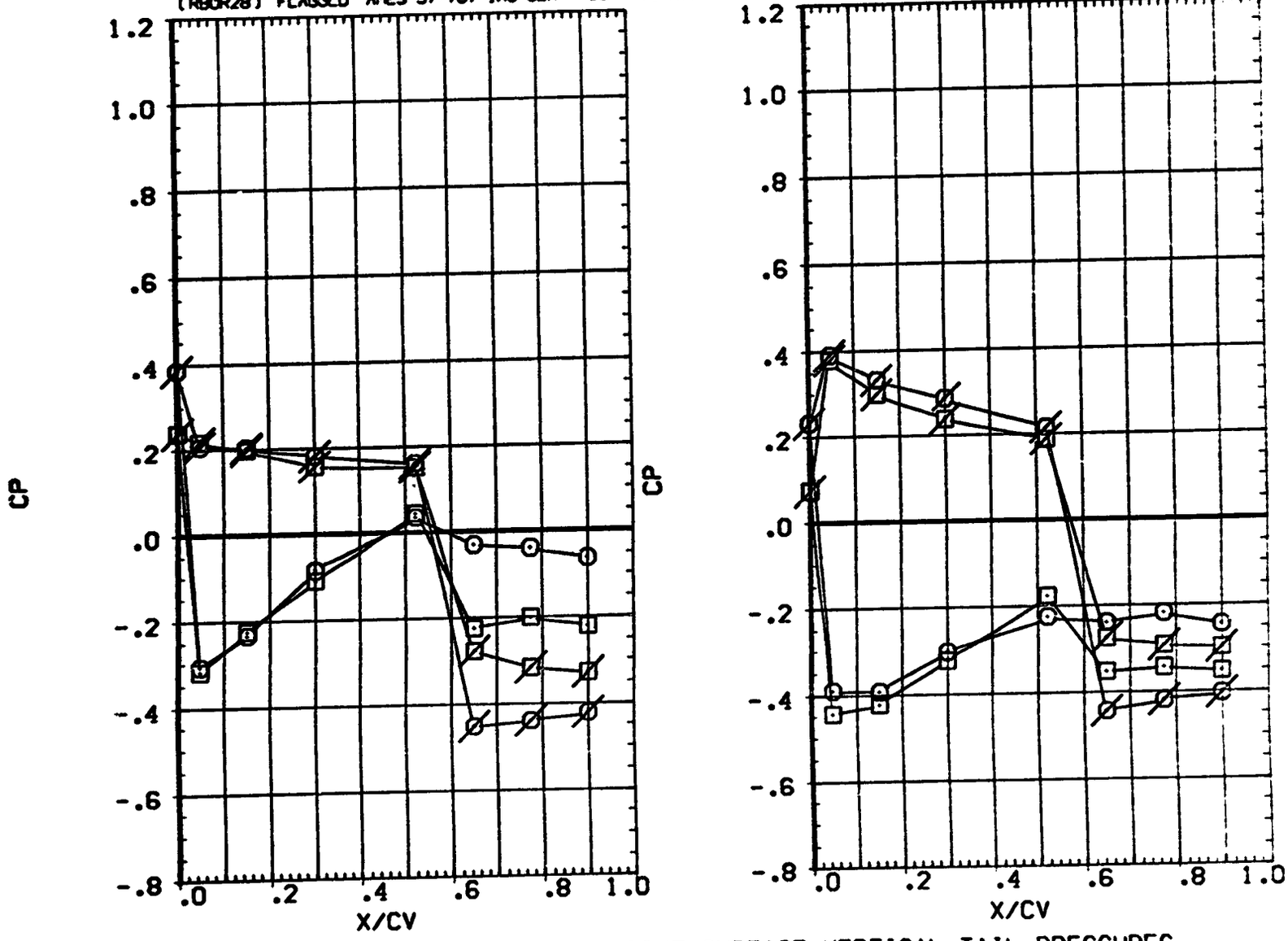


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	4.000	1.555
□	.925	8.130	

ALPHAT	8.000	ORBINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(R80V28)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(R80R28)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



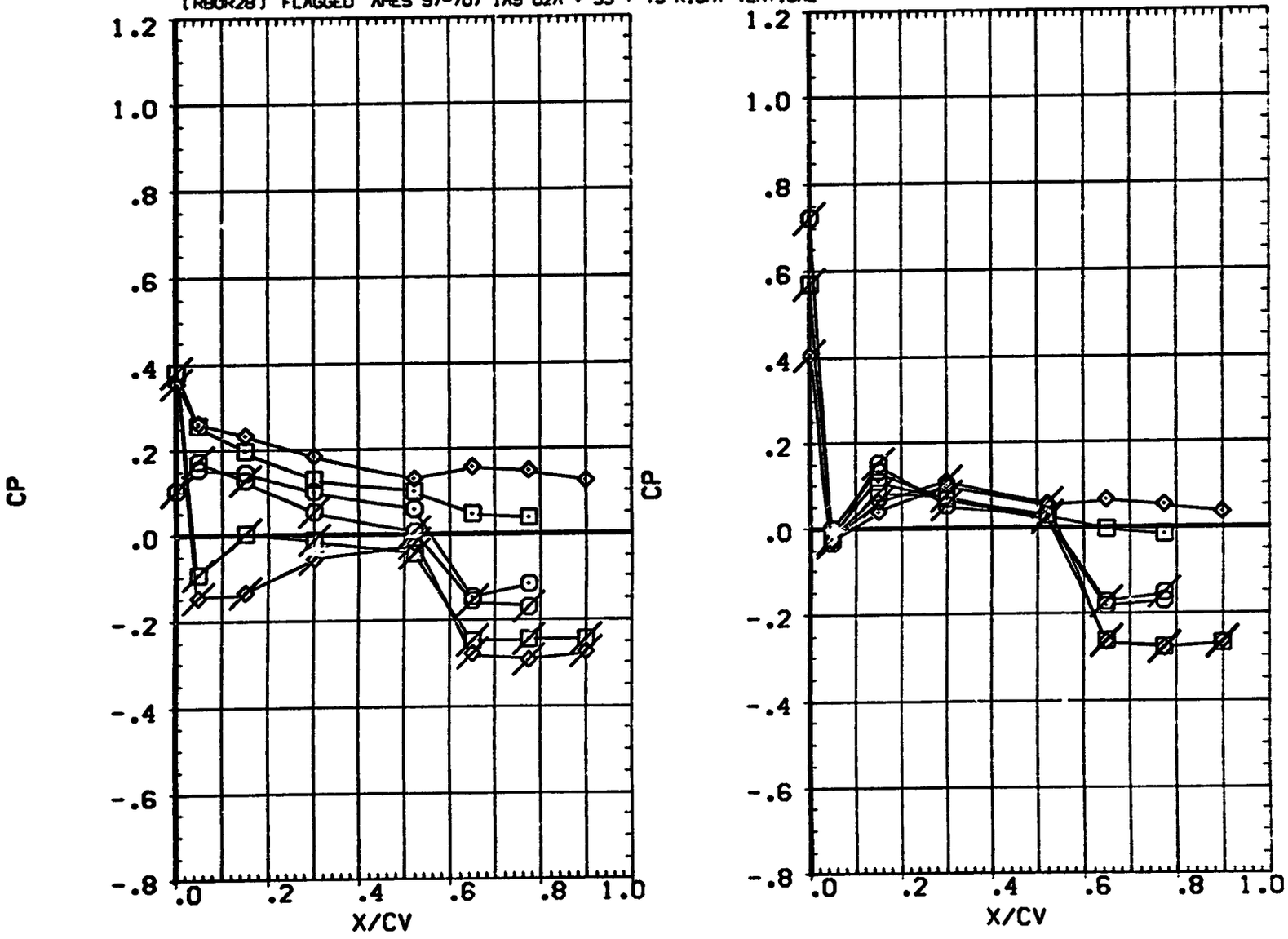
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.210	2.000
□	.316	-.110	
◇	.600		

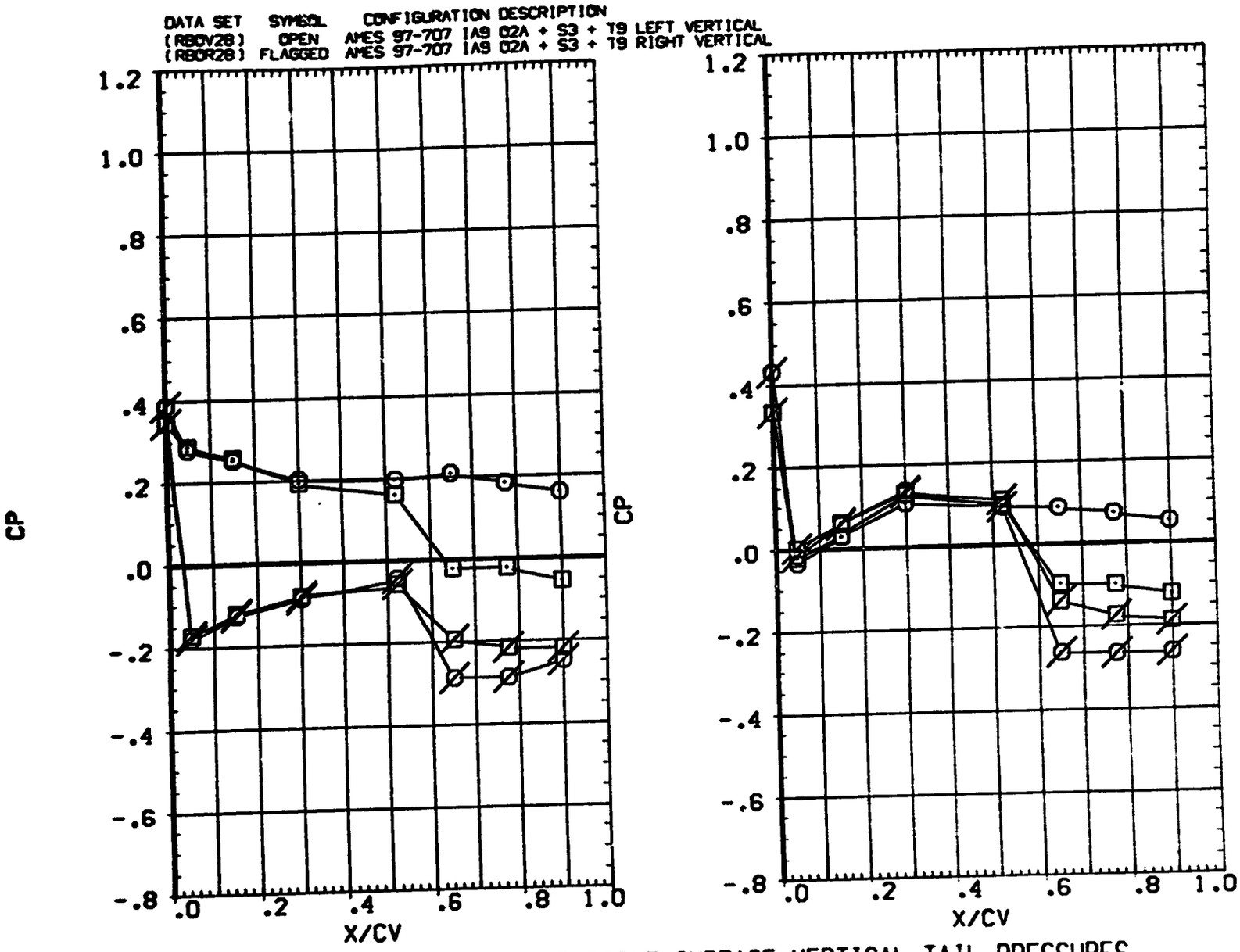
PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.000
RUDDER	15.000	ELEVCN	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV28)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR28)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



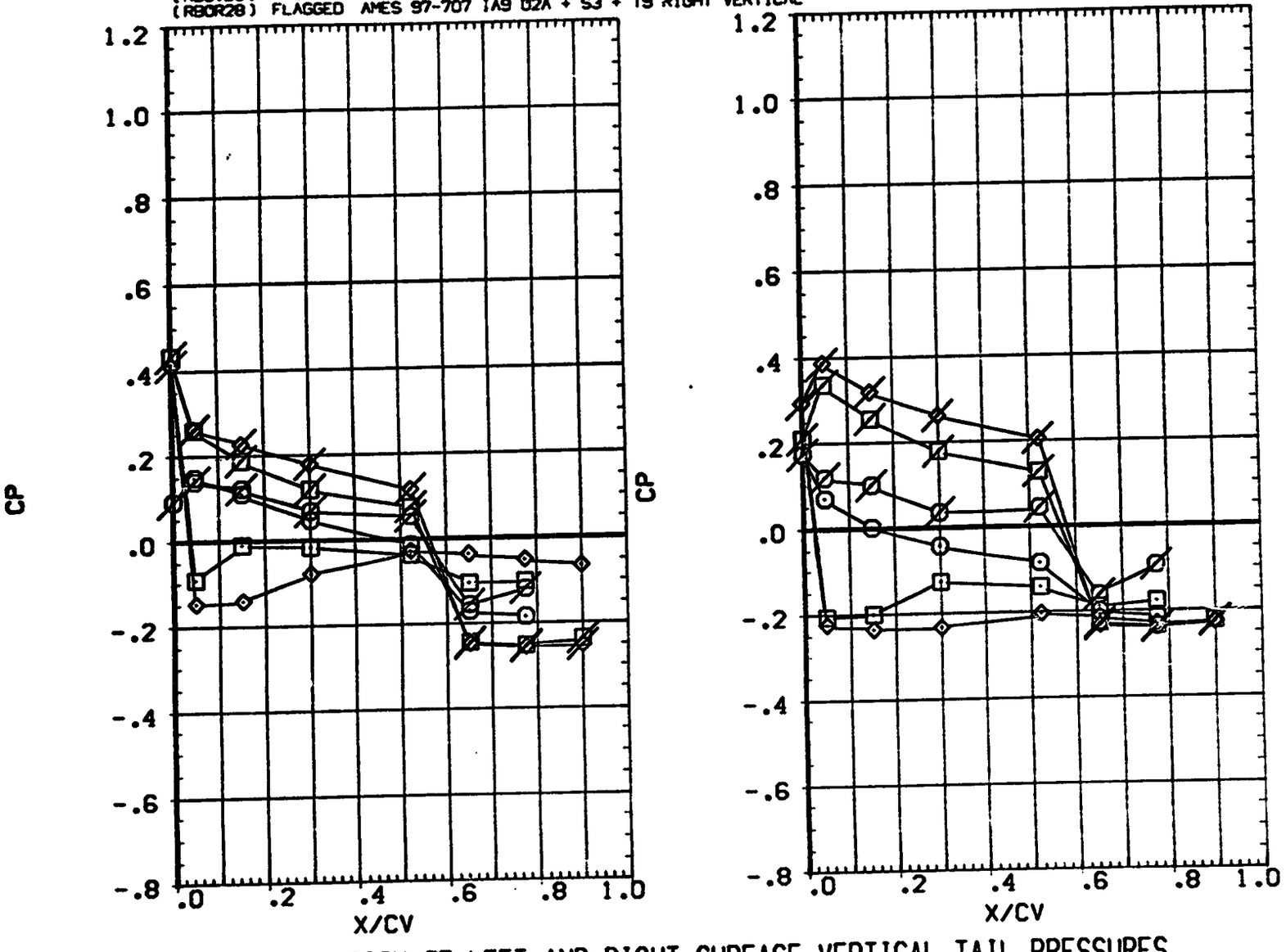
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	3.990	2.000
□	.316	8.110	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOV28)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBOR28)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL

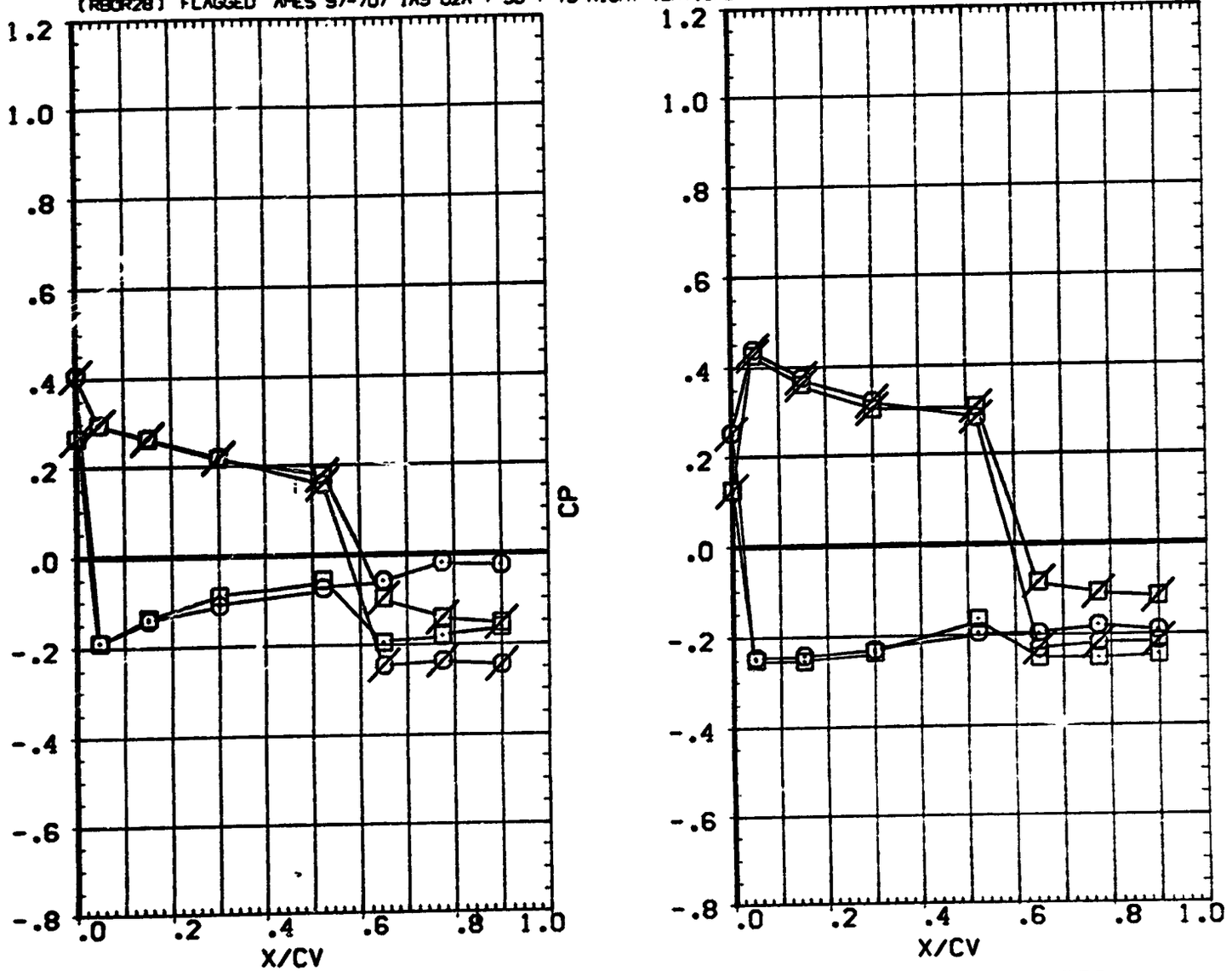


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	X/BW	BETAT	THKLIT
○	.840	3.990	2.000
□	.925	8.110	

ALPHAT	8.000	DRGINL	.000
RUDDER	15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(R80V28)	OPEN	AMES 97-707 IA9 02A + S3 + T9 LEFT VERTICAL
(R80R28)	FLAGGED	AMES 97-707 IA9 02A + S3 + T9 RIGHT VERTICAL



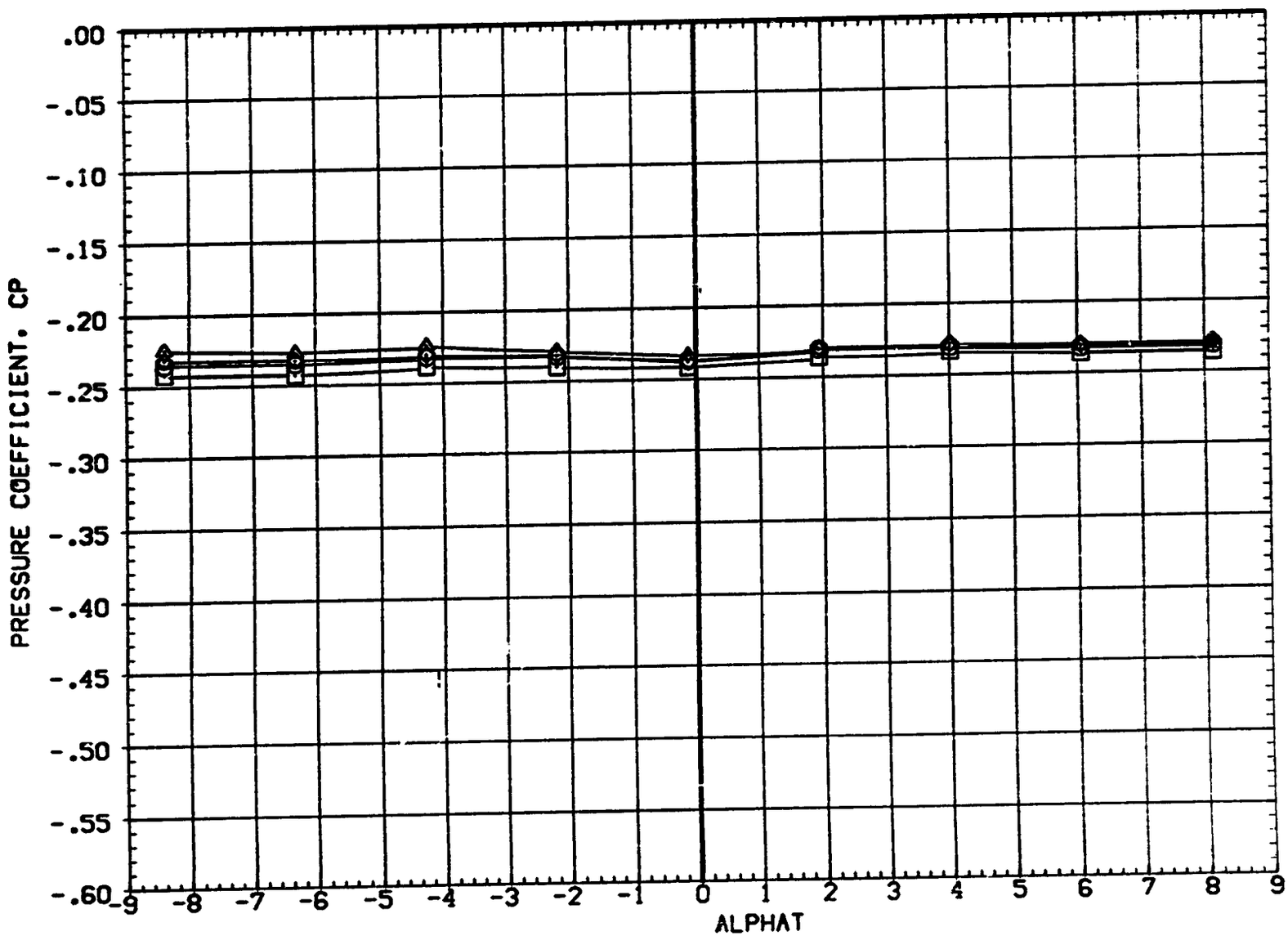
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER BASE (RB0C01)

SYMBOL	TAP NO	A	MACH
○	1.000	.000	1.555
□	2.000		
◇	3.000		
△	4.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



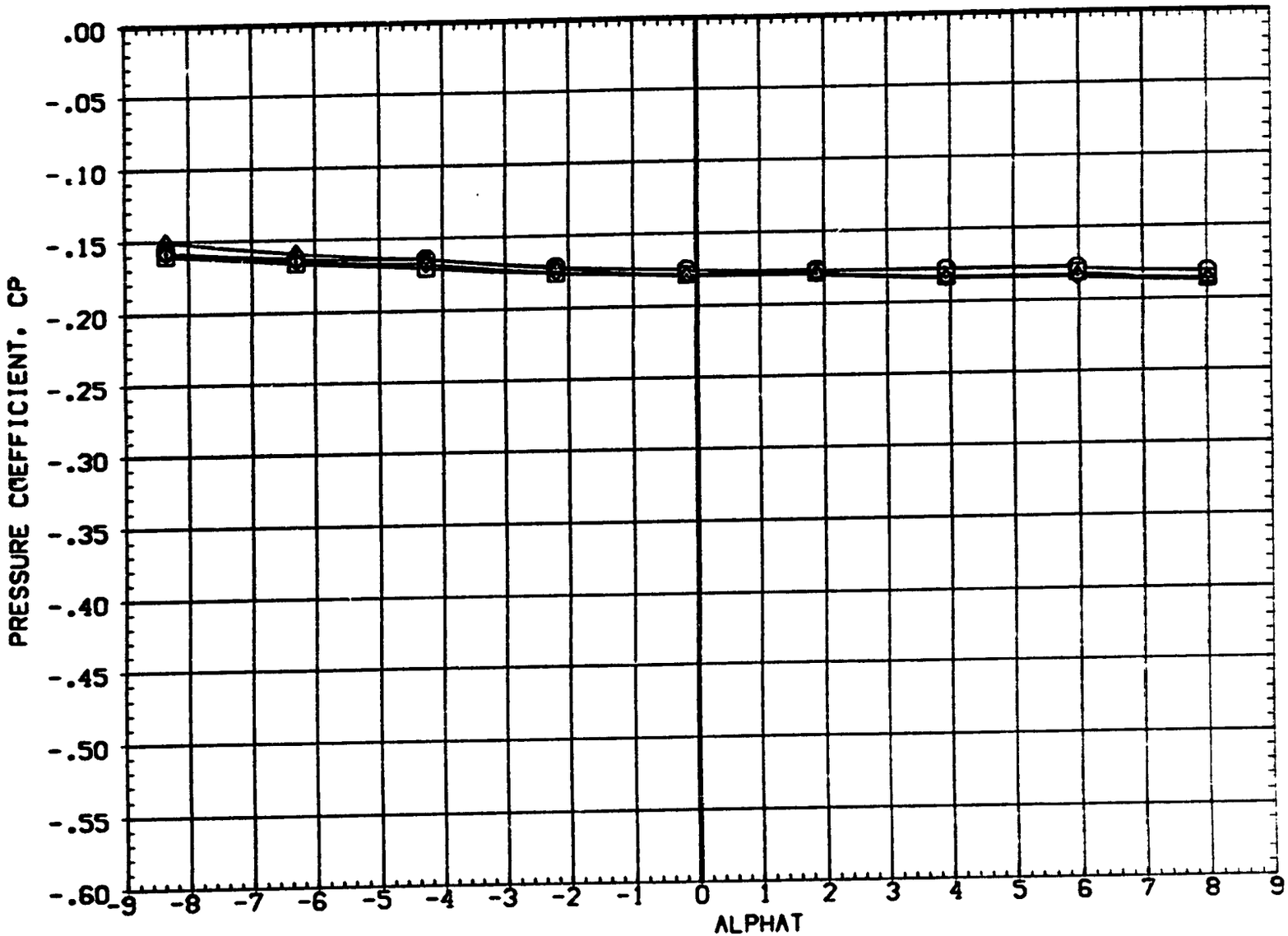
ORBITER BASE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER BASE (RBOCUT)

SYMBOL	TAP NO	A	MACH
○	1.000	.000	2.000
□	2.000		
◇	3.000		
△	4.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



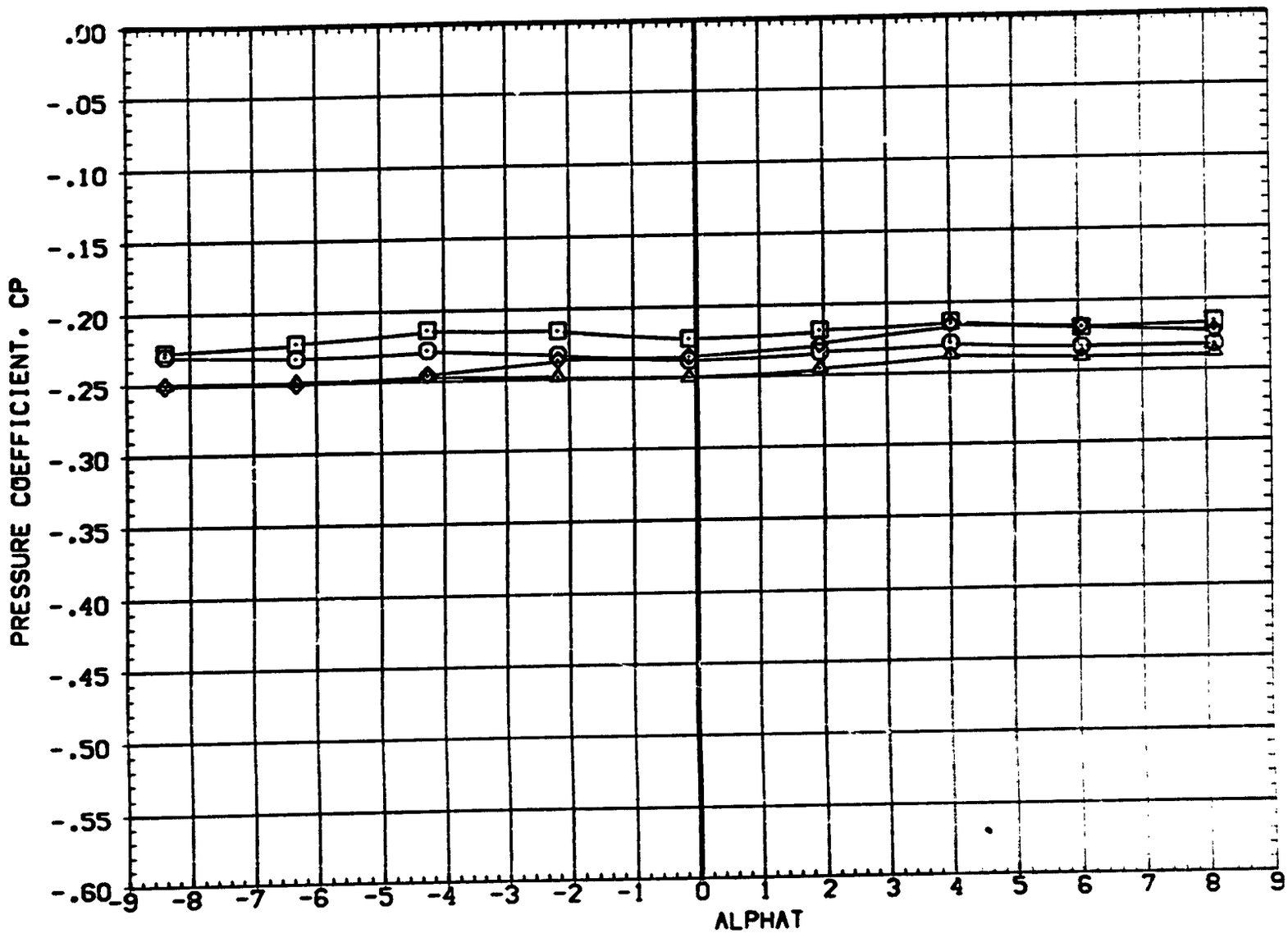
ORBITER BASE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER BASE (RBOCO!)

SYMBOL	TAP NO	A	MACH
○	6.000	.000	1.555
□	7.000		
◇	8.000		
△	9.000		

PARAMETRIC VALUES

BETAT	.000	SB!NC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



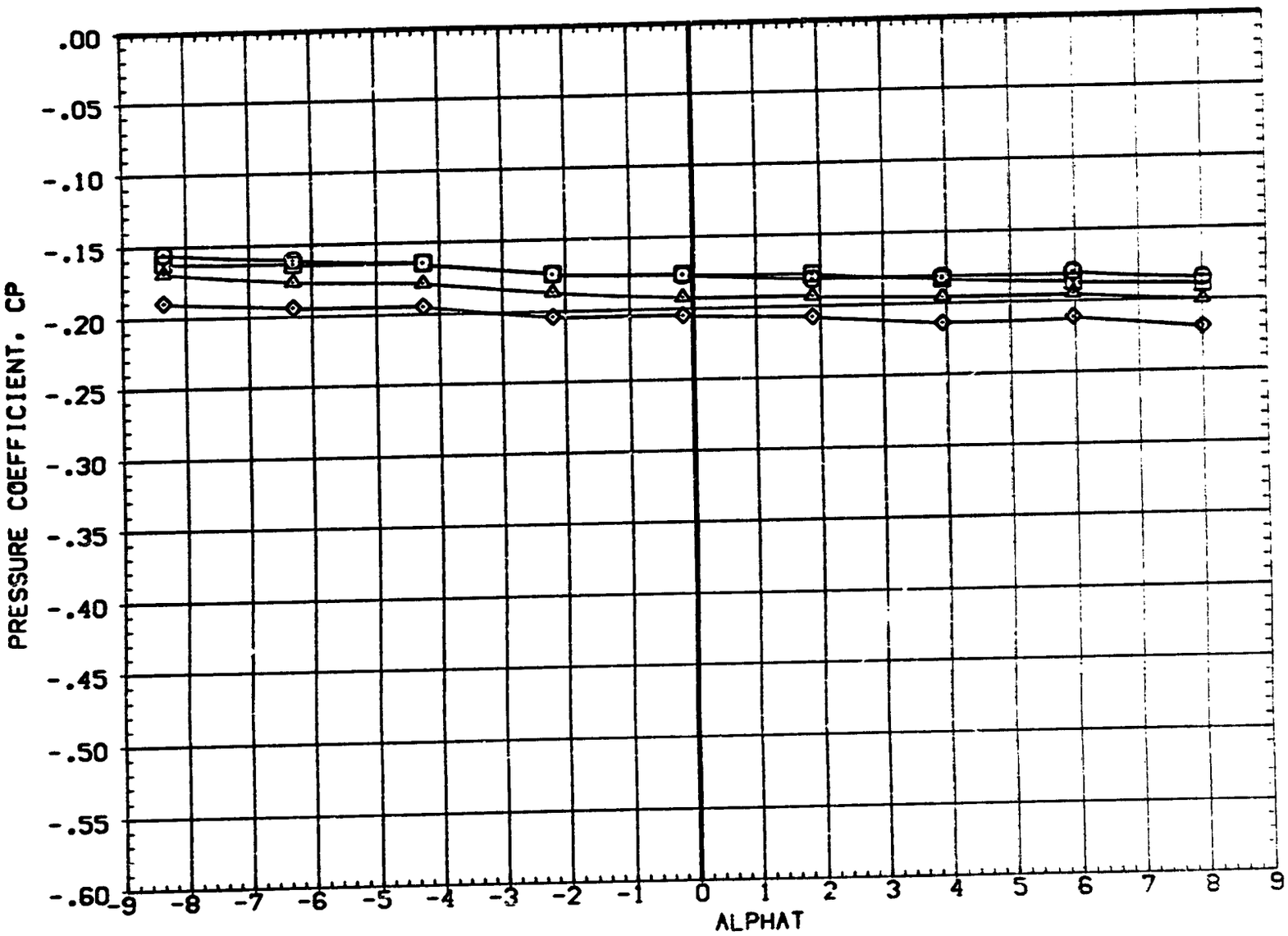
ORBITER BASE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER BASE (RBCCC1)

SYMBOL	TAP NO	A	MACH
○	6.000	.000	2.000
□	7.000		
◇	8.000		
△	9.000		

PARAMETRIC VALUES

BETAT	.000	BODINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



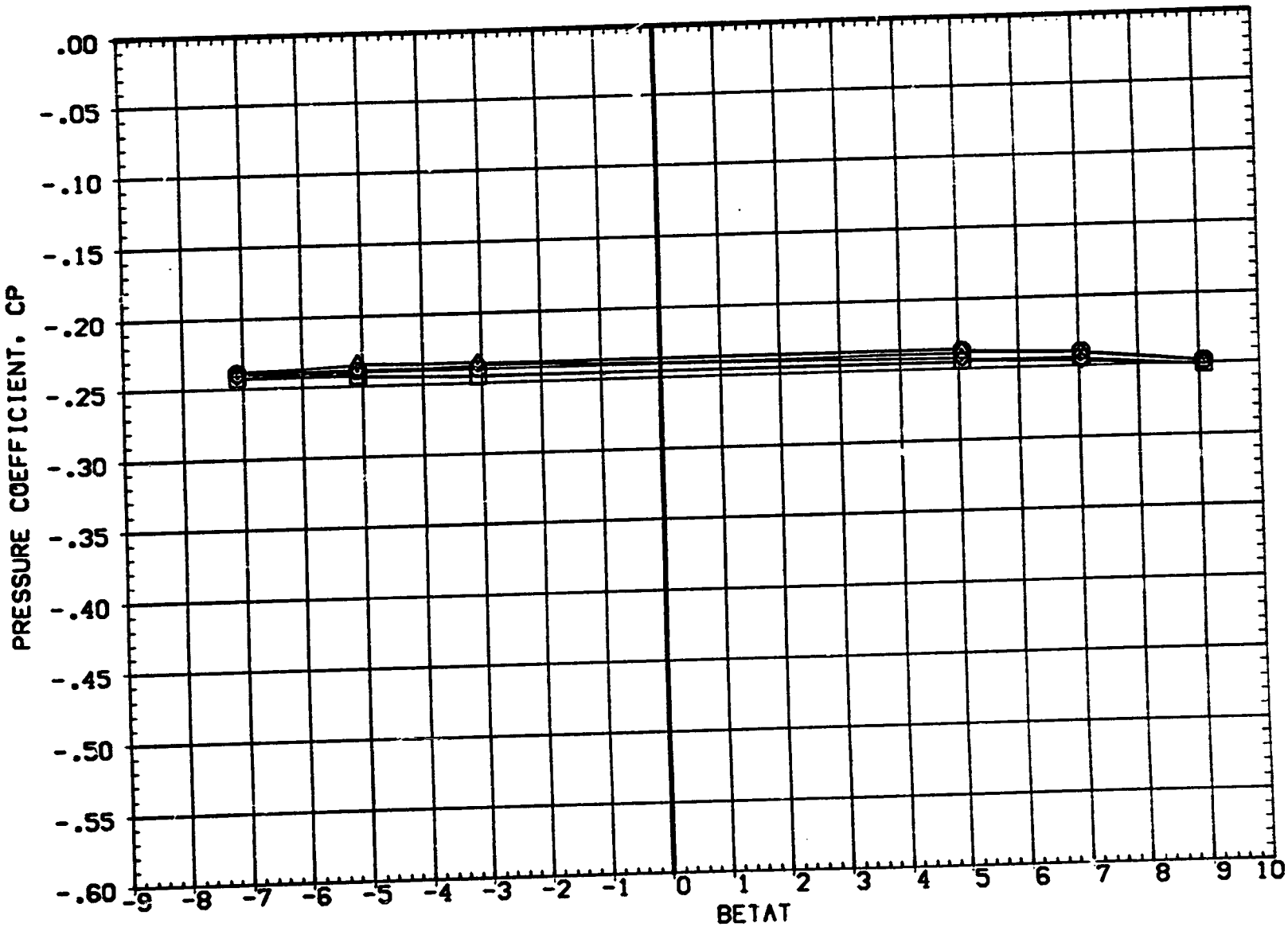
ORBITER BASE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER BASE (RB0C06)

SYMBOL	TAP NO	A	MACH
○	1.000	.000	1.555
□	2.000		
◇	3.000		
△	4.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

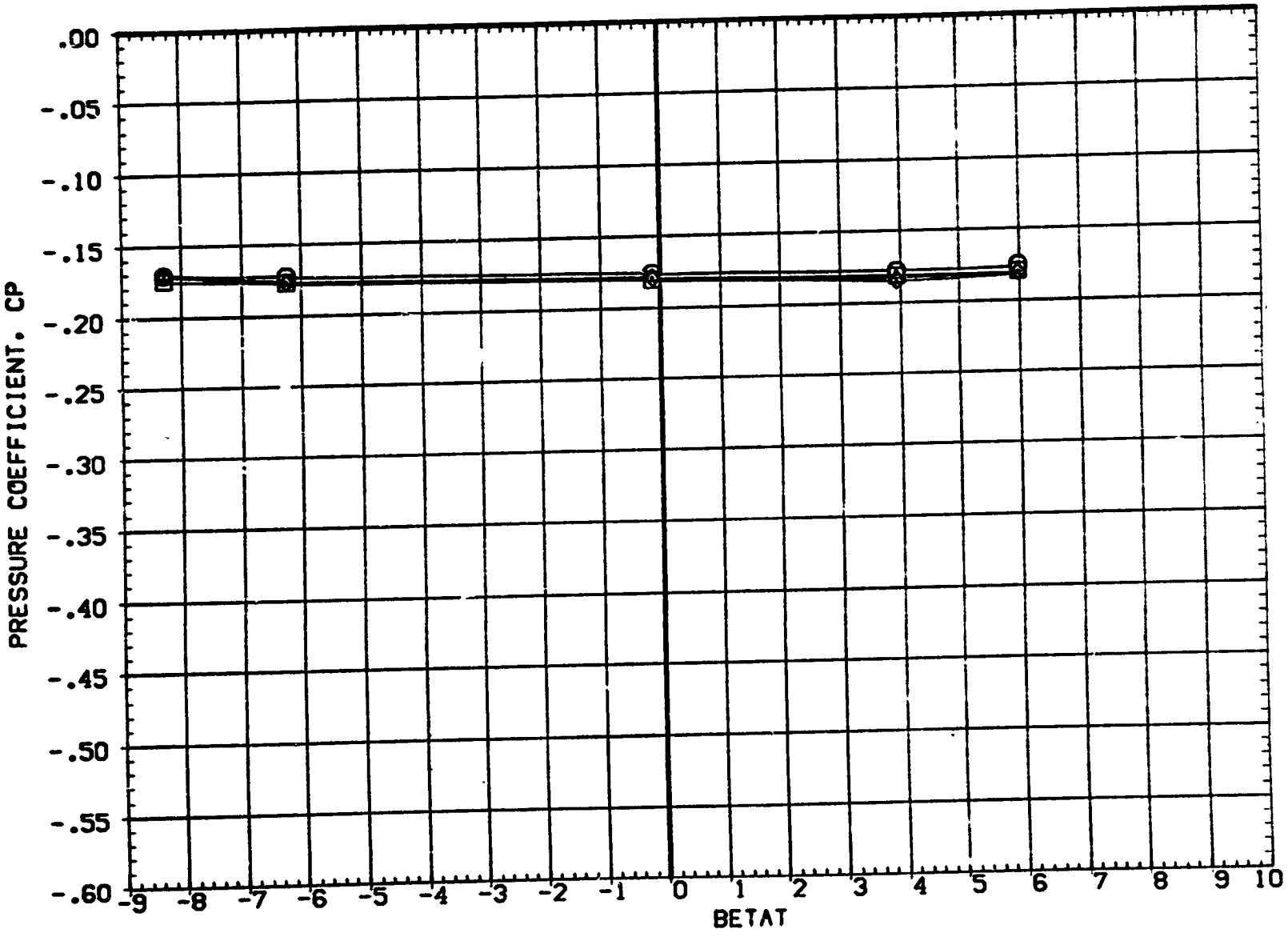


ORBITER BASE PRESSURES

SYMBOL	TAP NO	A	MACH
○	1.000	.000	2.000
◇	2.000		
□	3.000		
△	4.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



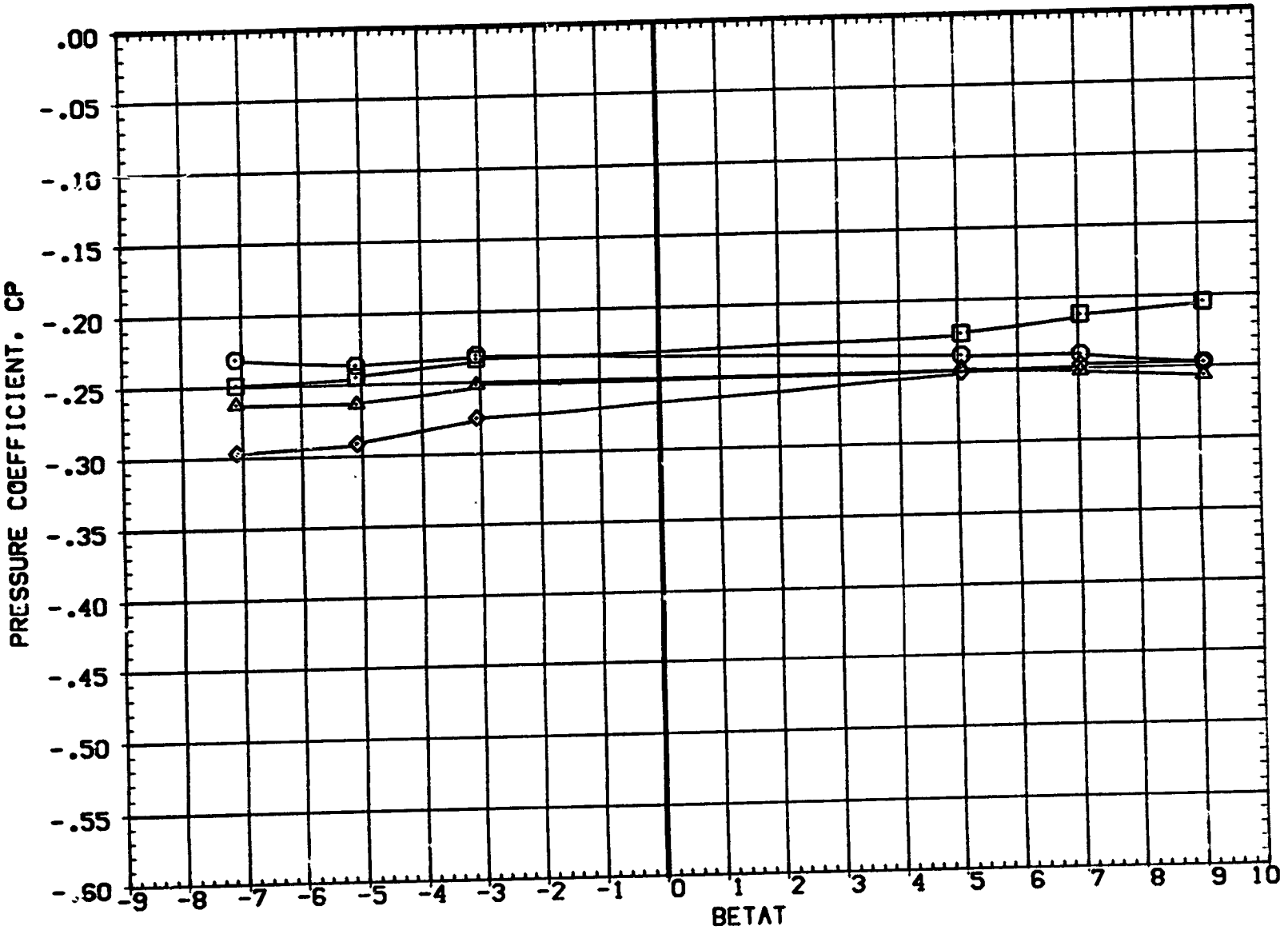
ORBITER BASE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 ORBITER BASE (RB0C06)

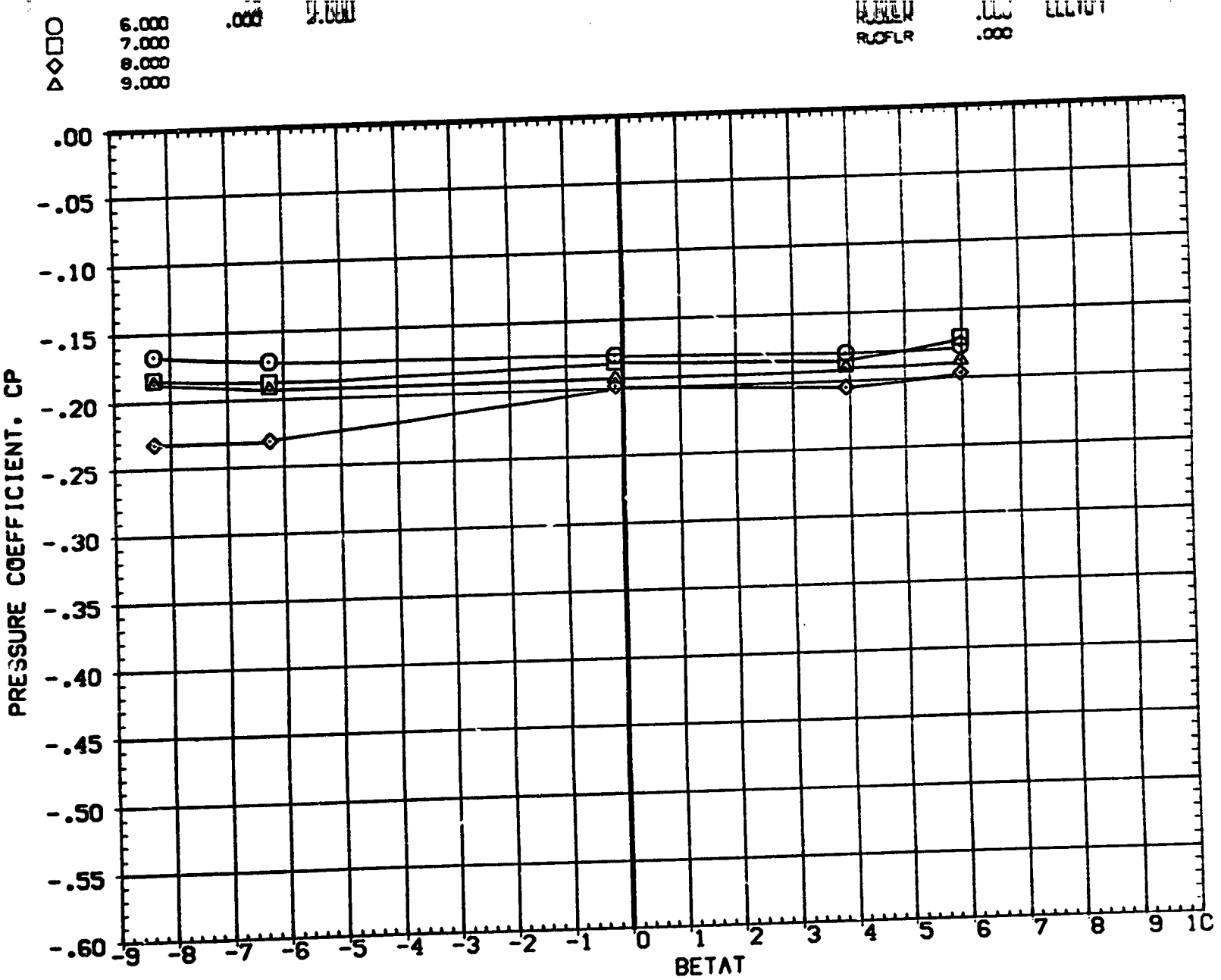
SYMBOL	TAP NO	A	MACH
○	6.000	.000	1.555
□	7.000		
◇	8.000		
△	9.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



ORBITER BASE PRESSURES



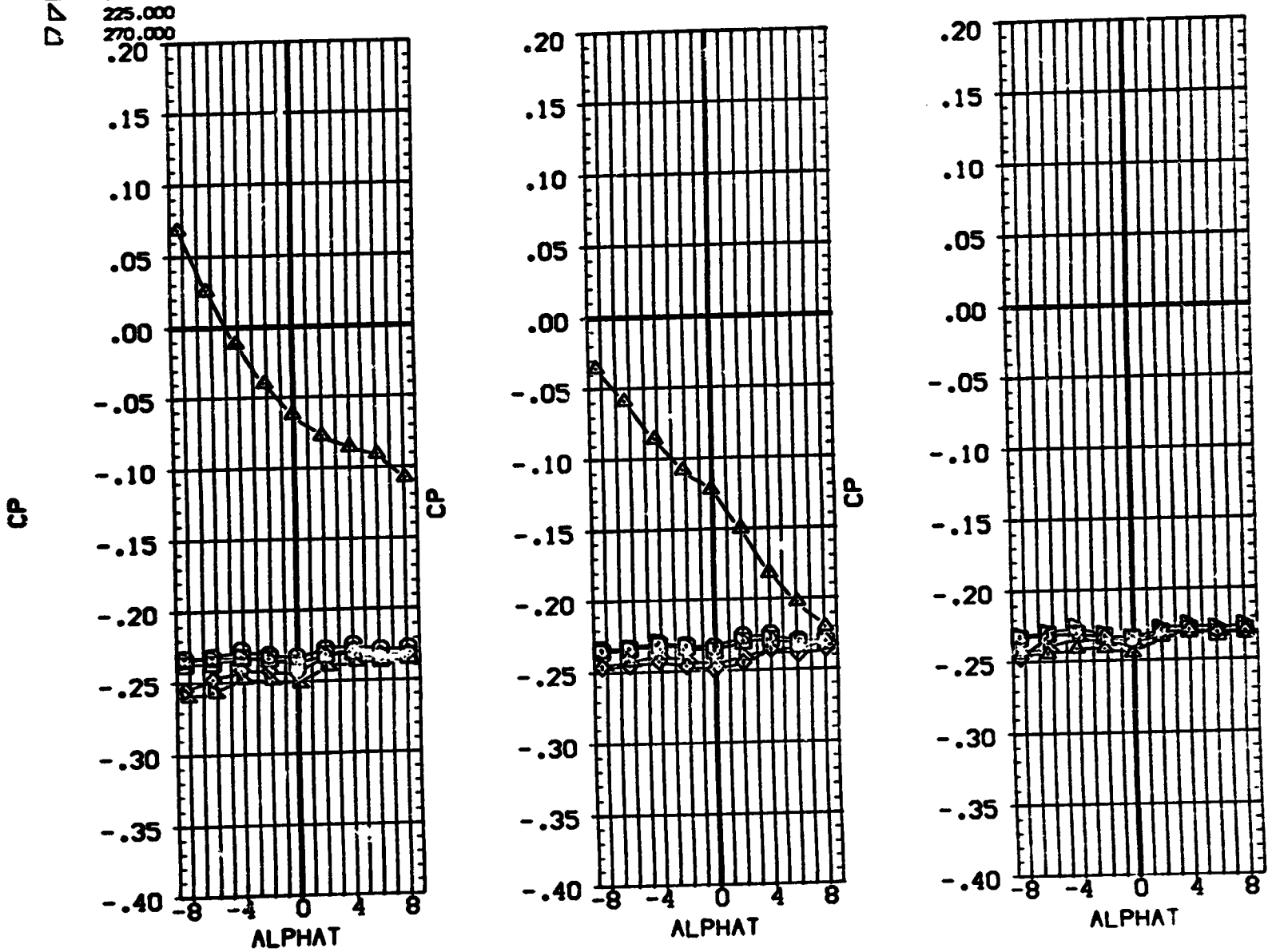
ORBITER BASE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 UPPER MPS NOZZLE (RB0D01)

SYMBOL	PHI	X/LNP	MACH
○	.000	.250	1.555
□	90.000	.500	
◇	135.000	.750	
△	180.000		
◺	225.000		
▱	270.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



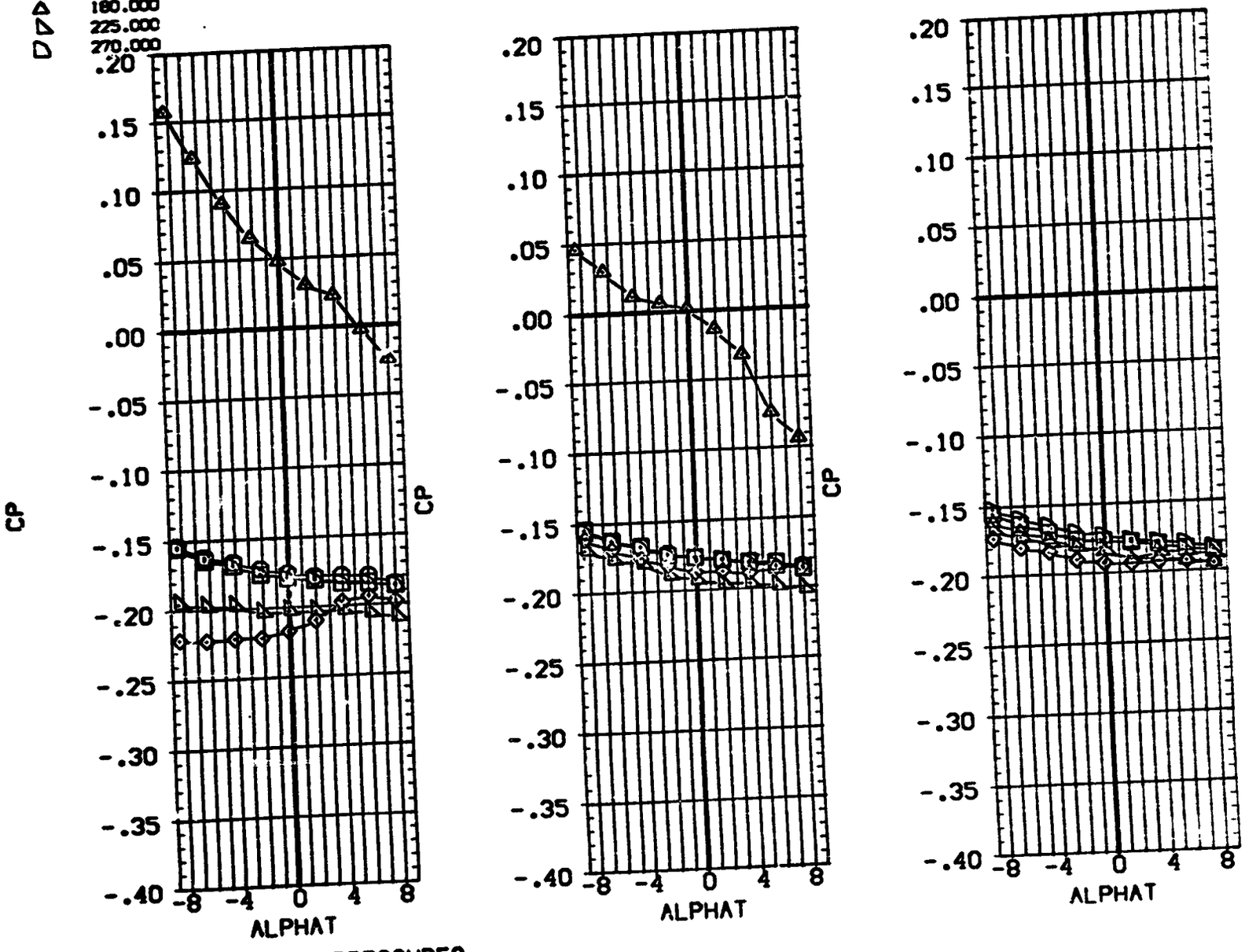
UPPER MPS NOZZLE PRESSURES

AMES 97-707 IA9 02A + 53 + TY UPPER TH J NOZZLE

SYMBOL	PHI	X/LNP	MACH
○	.000	.250	2.000
□	90.000	.500	
◇	135.000	.750	
△	180.000		
◁	225.000		
▷	270.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



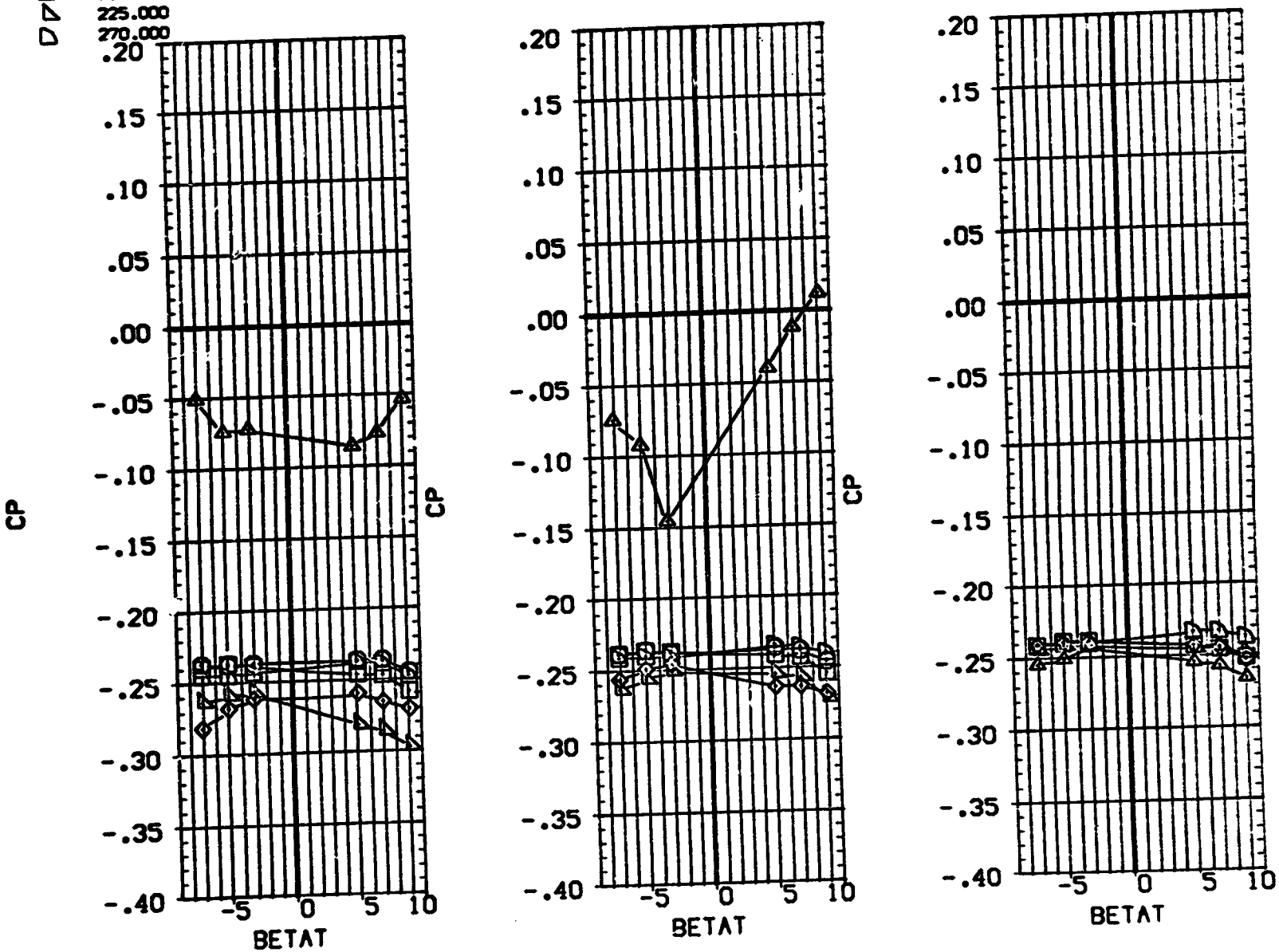
UPPER MPS NOZZLE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 UPPER MPS NOZZLE (RB0D06)

SYMBOL	PHI	X/LNP	MACH
○	.000	.250	1.555
□	90.000	.500	
◇	135.000	.750	
△	180.000		
△	225.000		
□	270.000		

PARAMETRIC VALUES

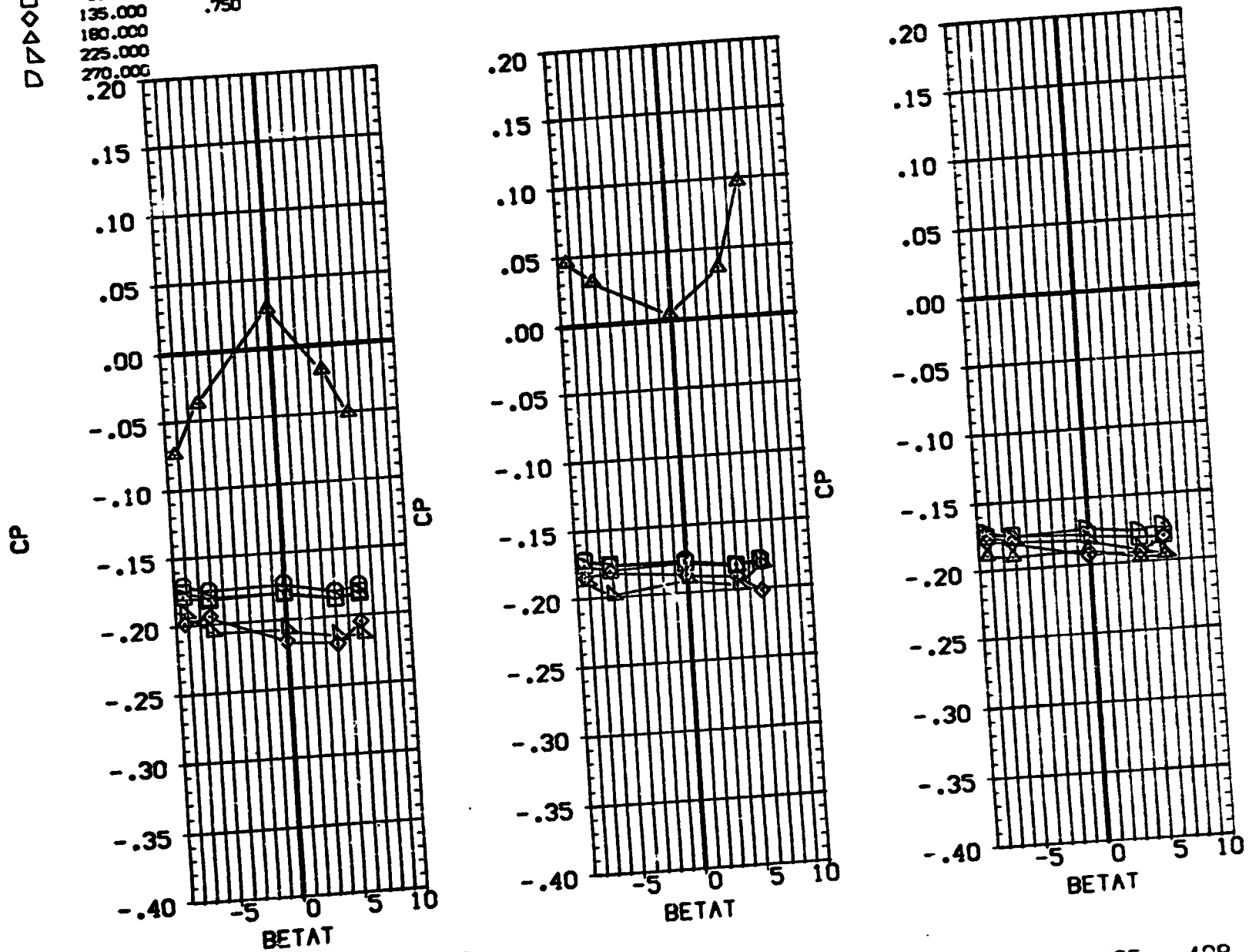
ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



UPPER MPS NOZZLE PRESSURES

SYMBOL	PHI	X/LNP	MACH
○	.000	.250	2.000
□	90.000	.500	
◇	135.000	.750	
△	180.000		
◁	225.000		
▷	270.000		

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



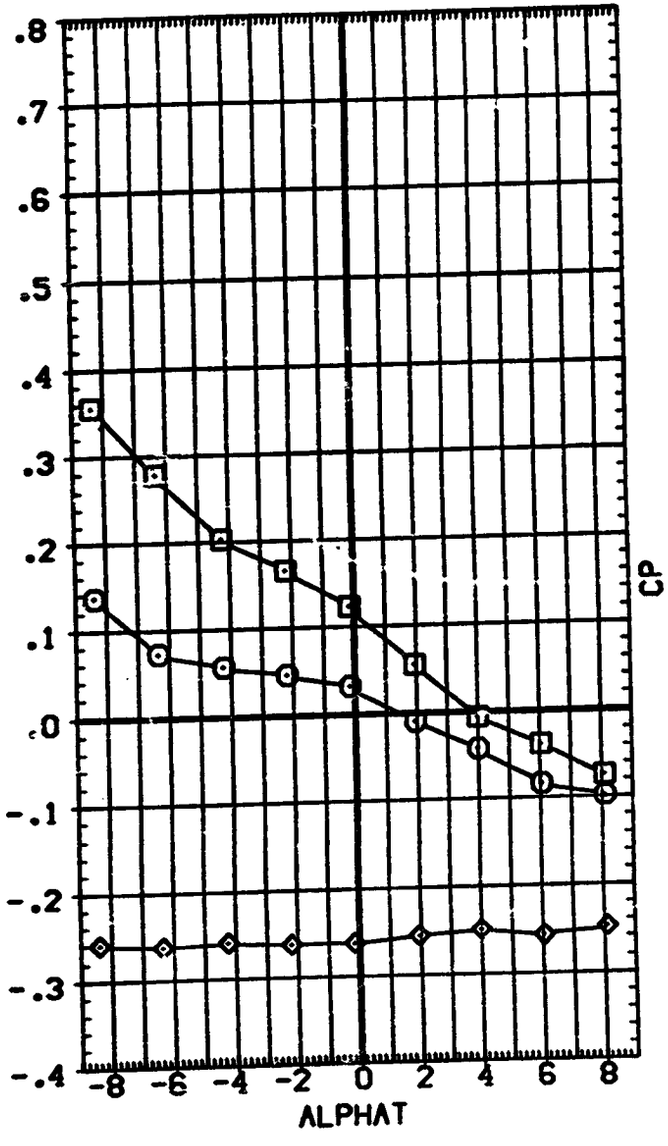
UPPER MPS NOZZLE PRESSURES

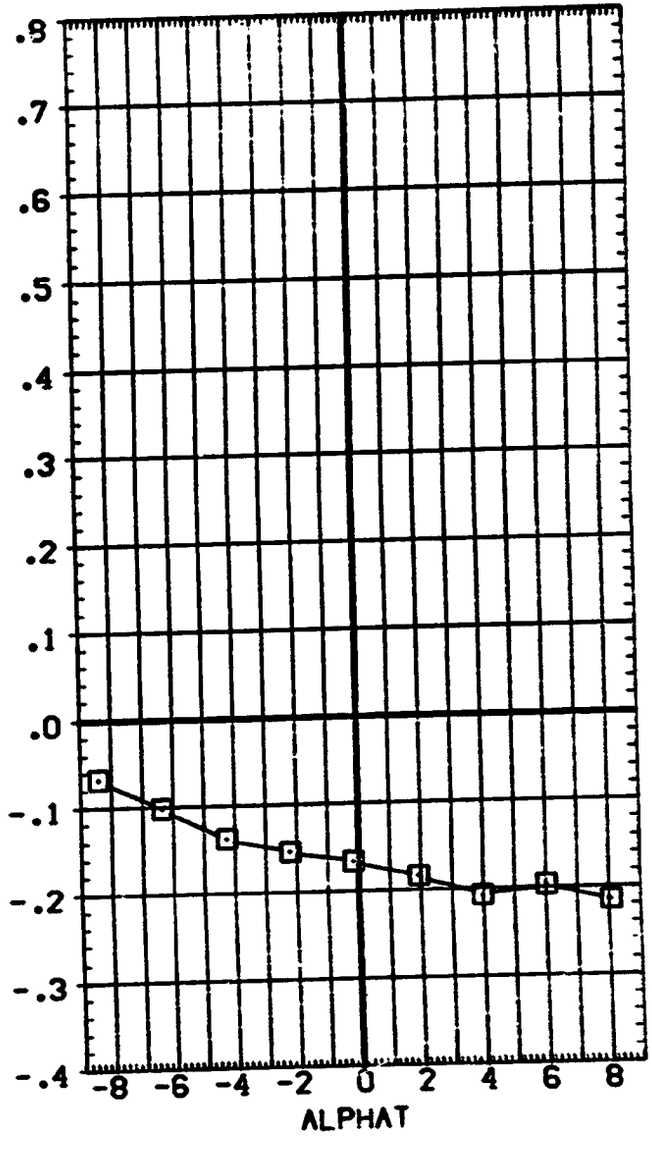
AMES 97-707 IA9 02A + S3 + T9 OMS NOZZLE (RBCEO:)

SYMBOL	PHI	X/LNM	MACH
○	135.000	.200	1.555
□	180.000	.400	
◇	225.000		

PARAMETRIC VALUES

BETAT	.000	CABINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		





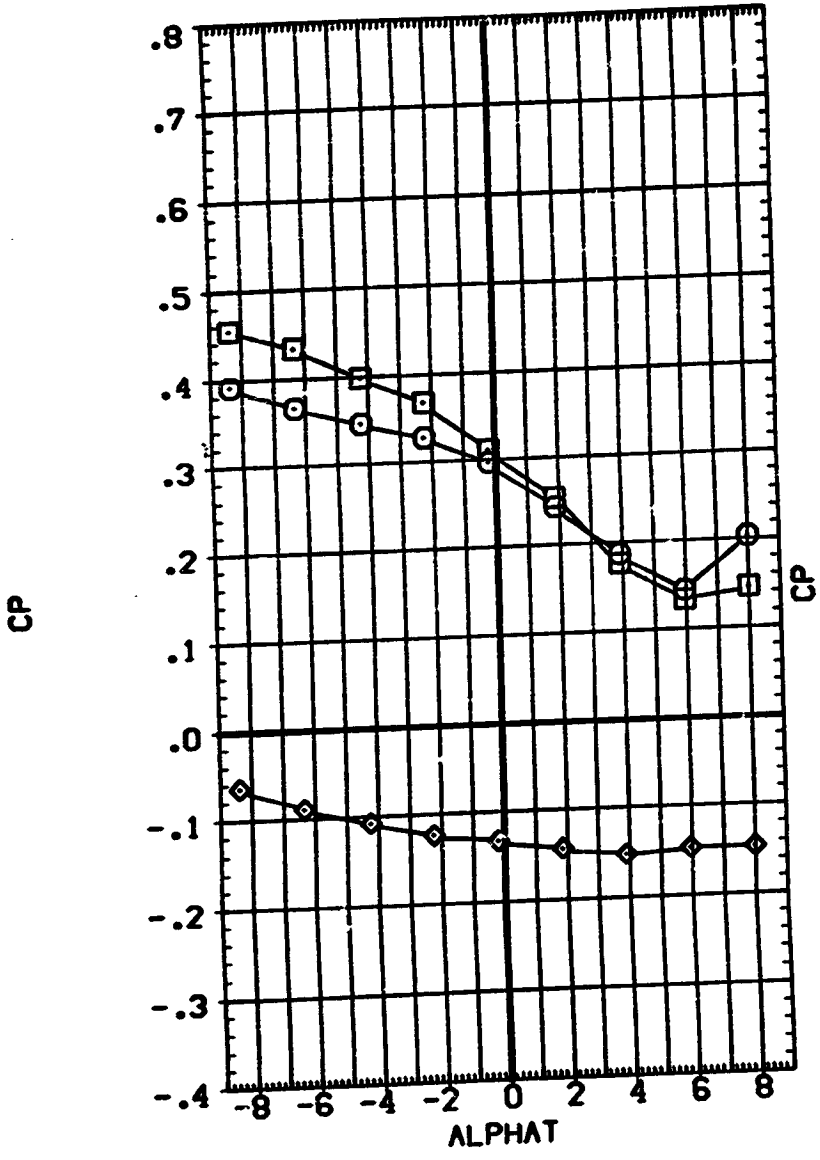
OMS NOZZLE PRESSURES

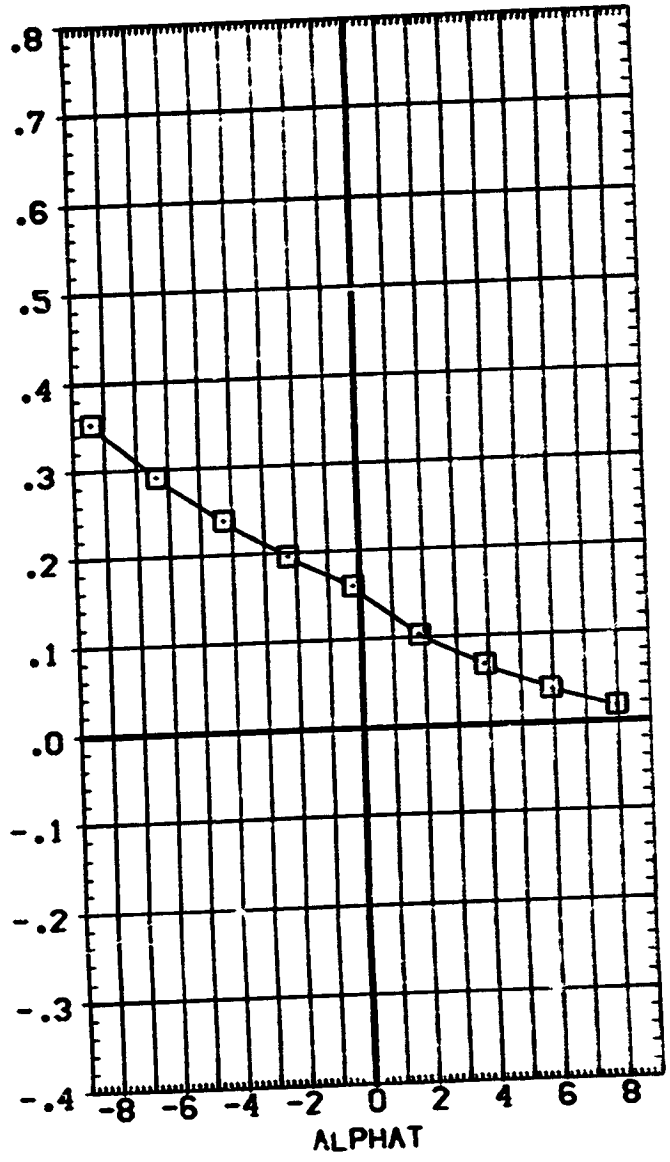
AMES 97-707 IA9 02A + S3 + T9 OMS NOZZLE (RBOEO:)

SYMBOL	PHI	X/LNM	MACH
○	135.000	.200	2.000
□	180.000	.400	
◇	225.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		





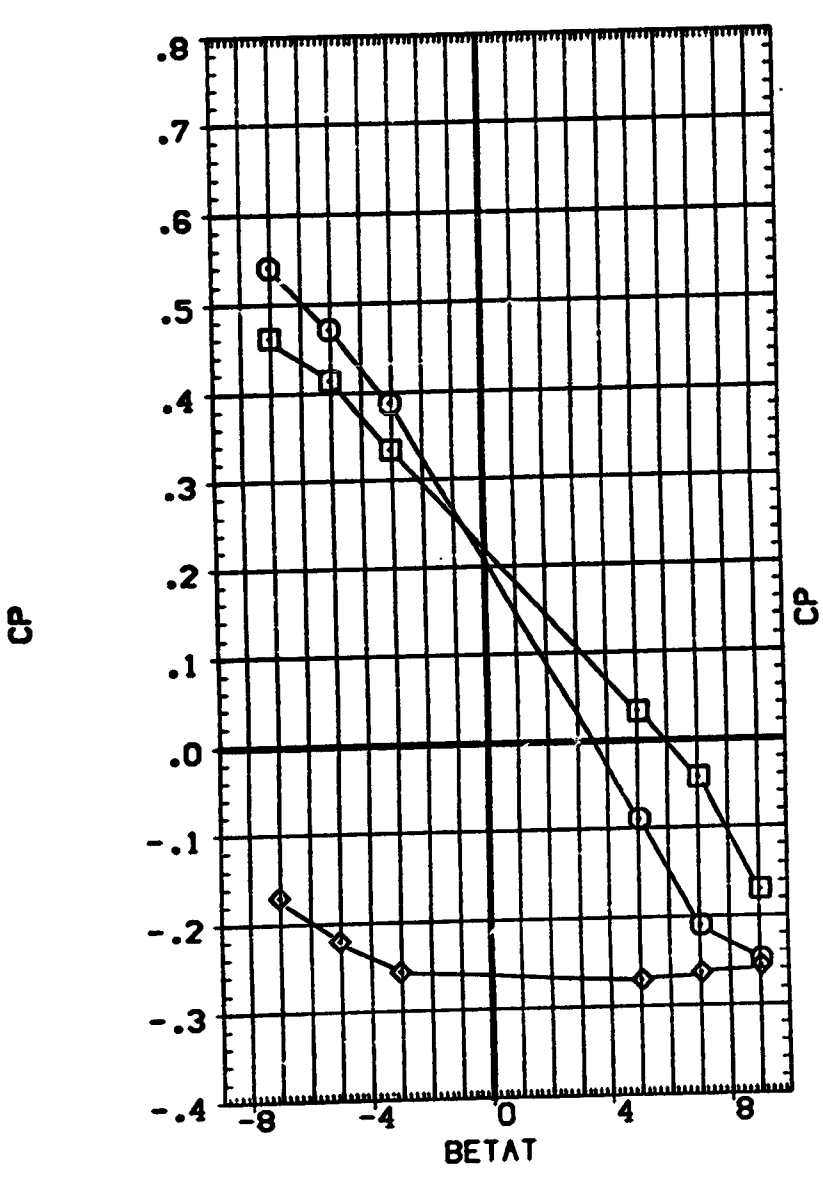
OMS NOZZLE PRESSURES

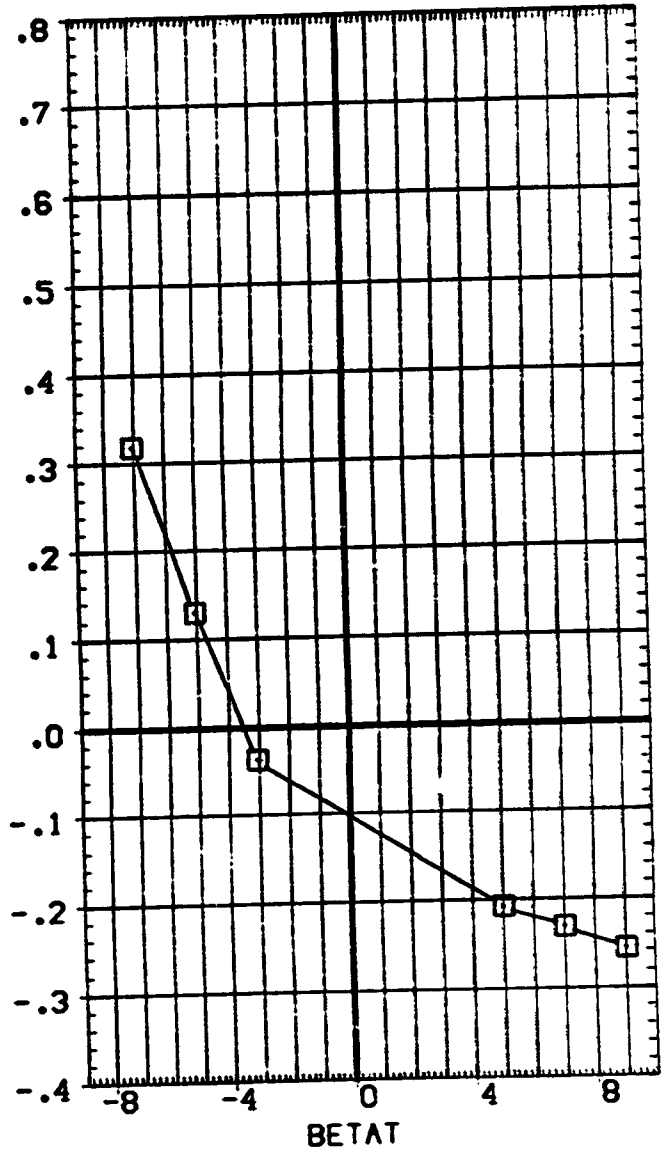
AMES 97-707 IA9 02A + S3 + T9 OMS NOZZLE (RB0E06)

SYMBOL	PHI	X/LNM	MACH
○	135.000	.200	1.555
□	180.000	.400	
◇	225.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
R_ODER	.000	ELEVON	.000
R_OFLR	.000		





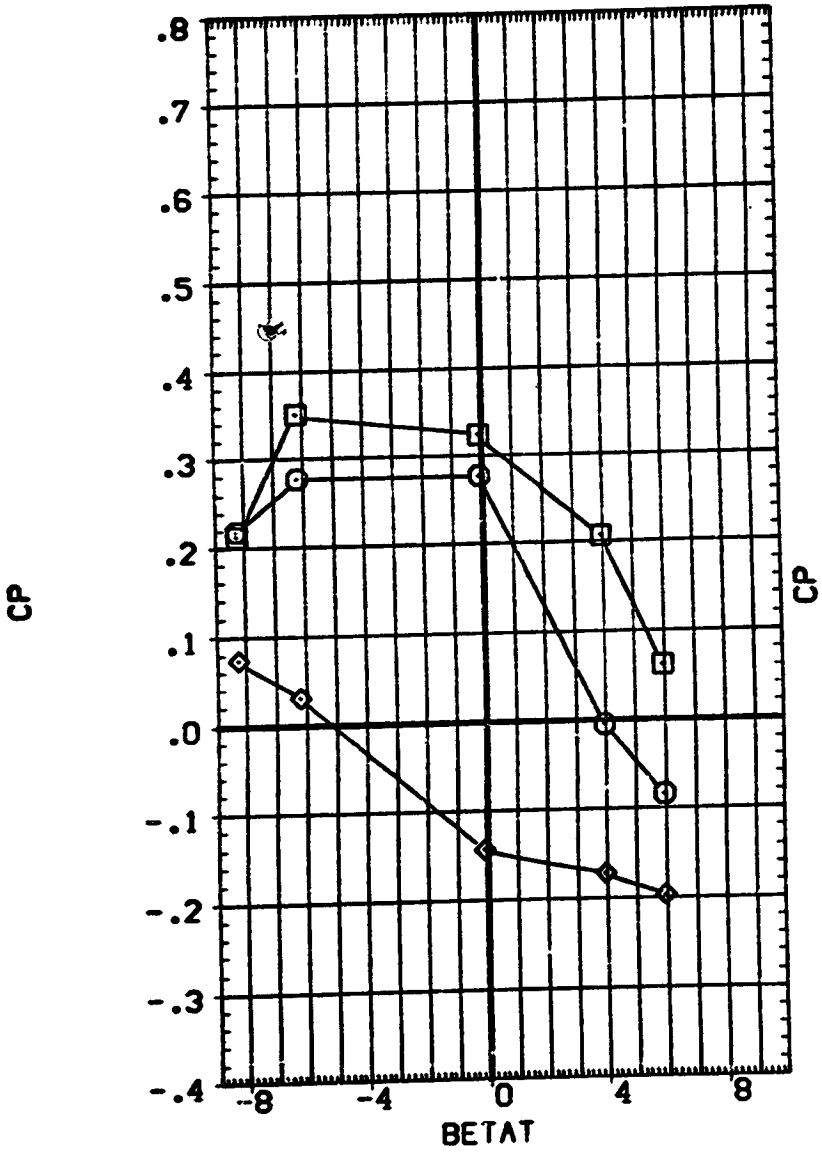
OMS NOZZLE PRESSURES

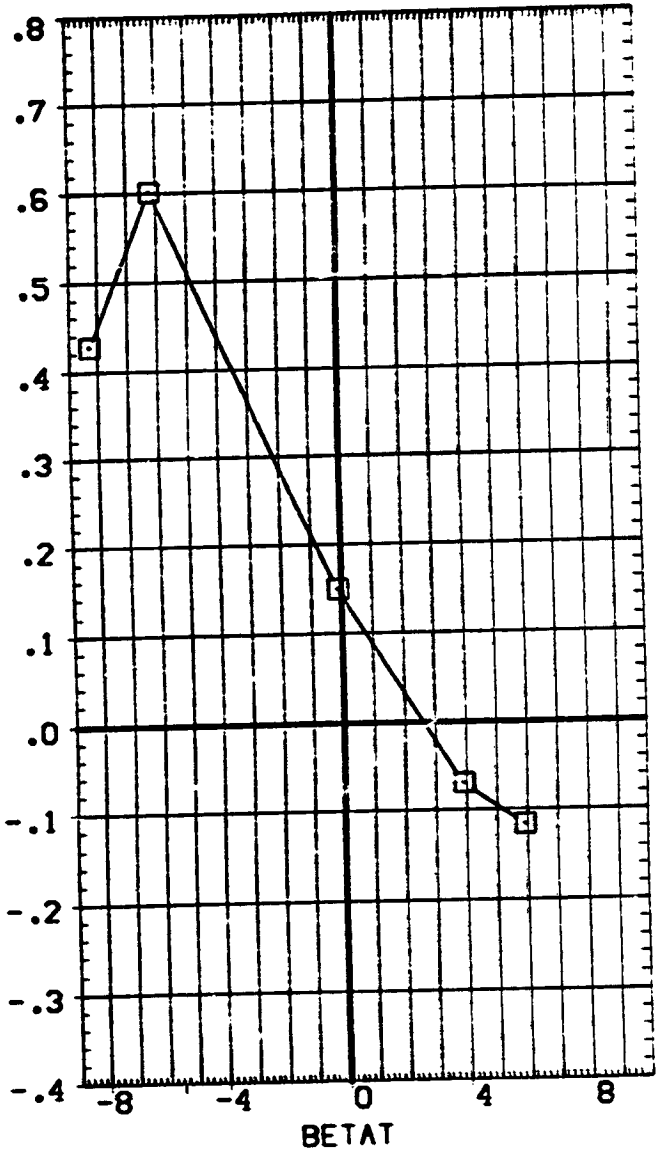
AMES 97-707 IA9 02A + S3 + T9 OMS NOZZLE (RBOEO6)

SYMBOL	PHI	X/LNM	MACH
○	135.000	.200	2.000
□	180.000	.400	
◇	225.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		





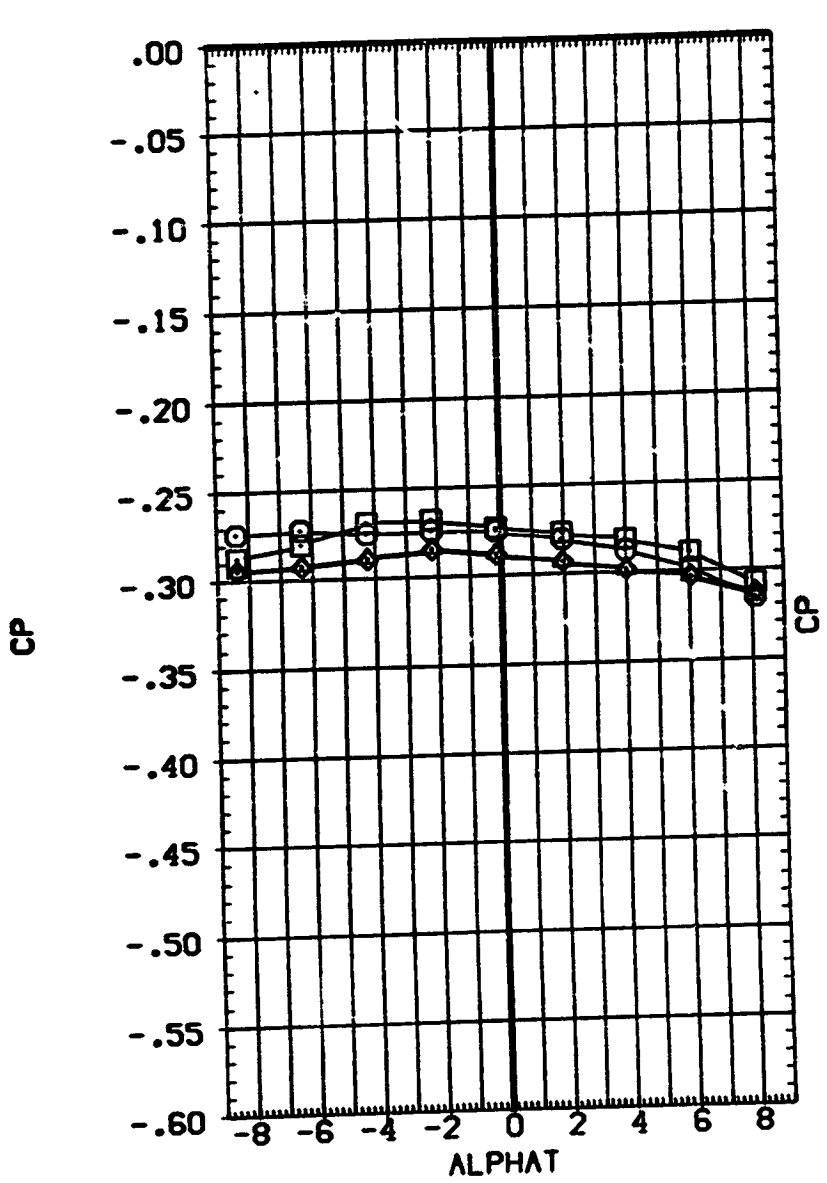
OMS NOZZLE PRESSURES

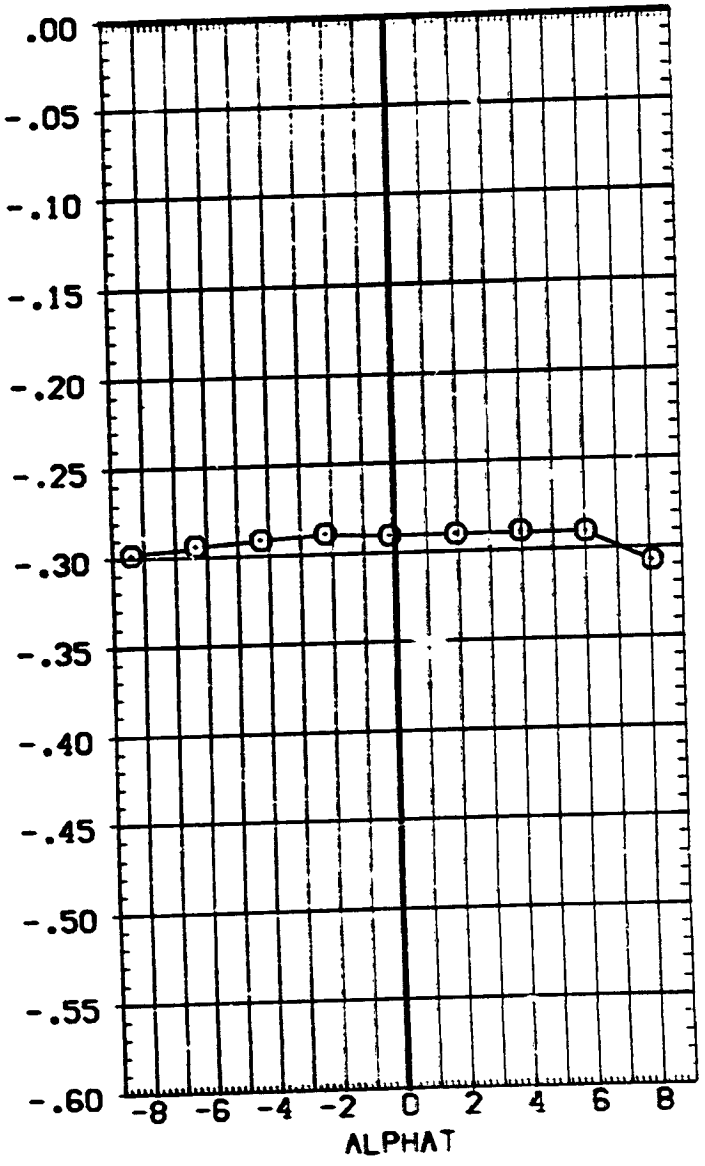
AMES 97-707 IAS 02A + S3 + T9 SRM BOOSTER BASE (RBCX01)

SYMBOL	PHI	X/LS	MACH
○	.000	.985	1.555
□	90.000	1.000	
◇	180.000		
△	270.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		





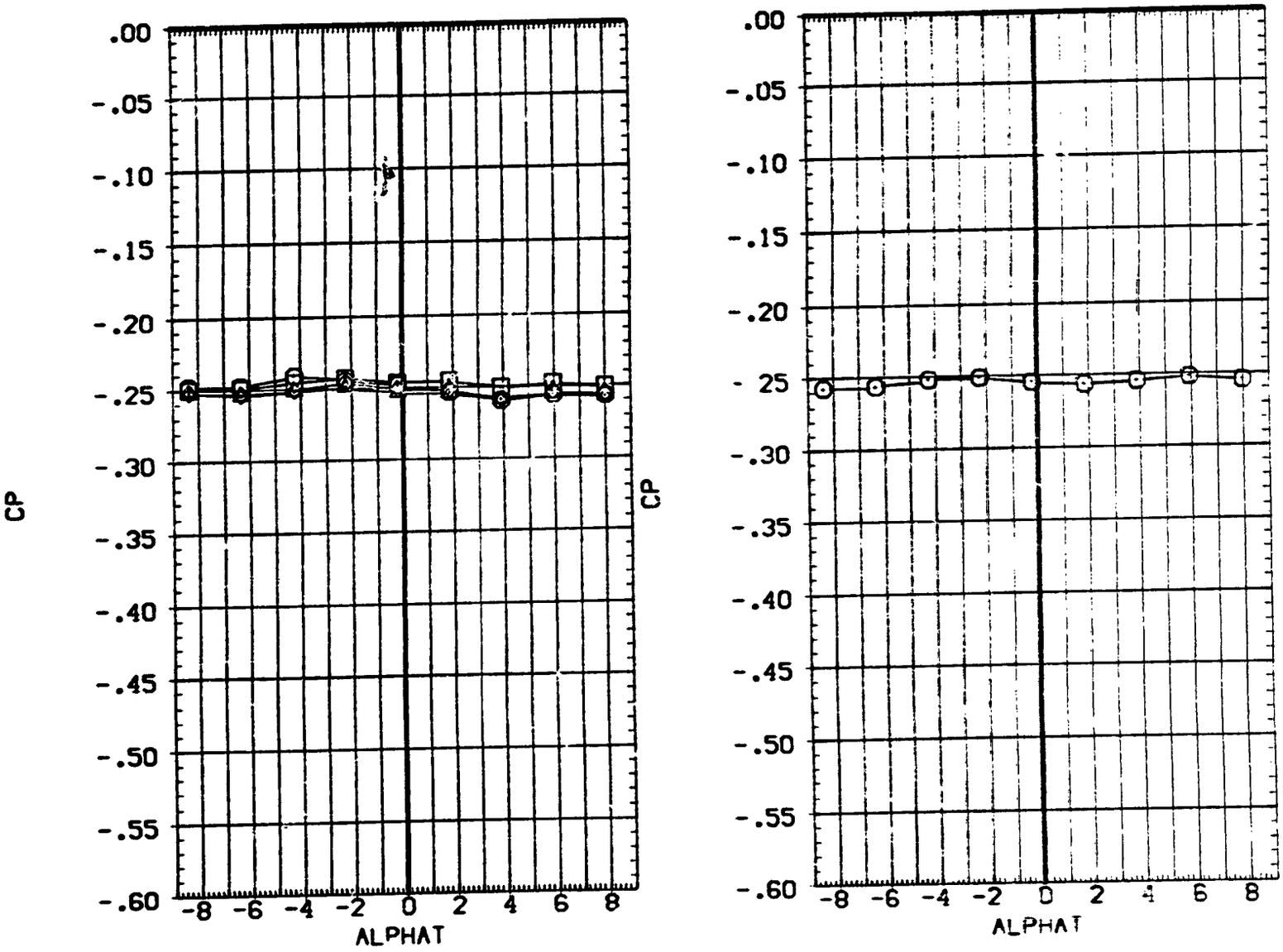
SRM BOOSTER BASE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER BASE (RBCX01)

SYMBOL	PHI	X/LS	MACH
○	.000	.985	2.000
□	90.000	1.000	
◇	180.000		
△	270.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



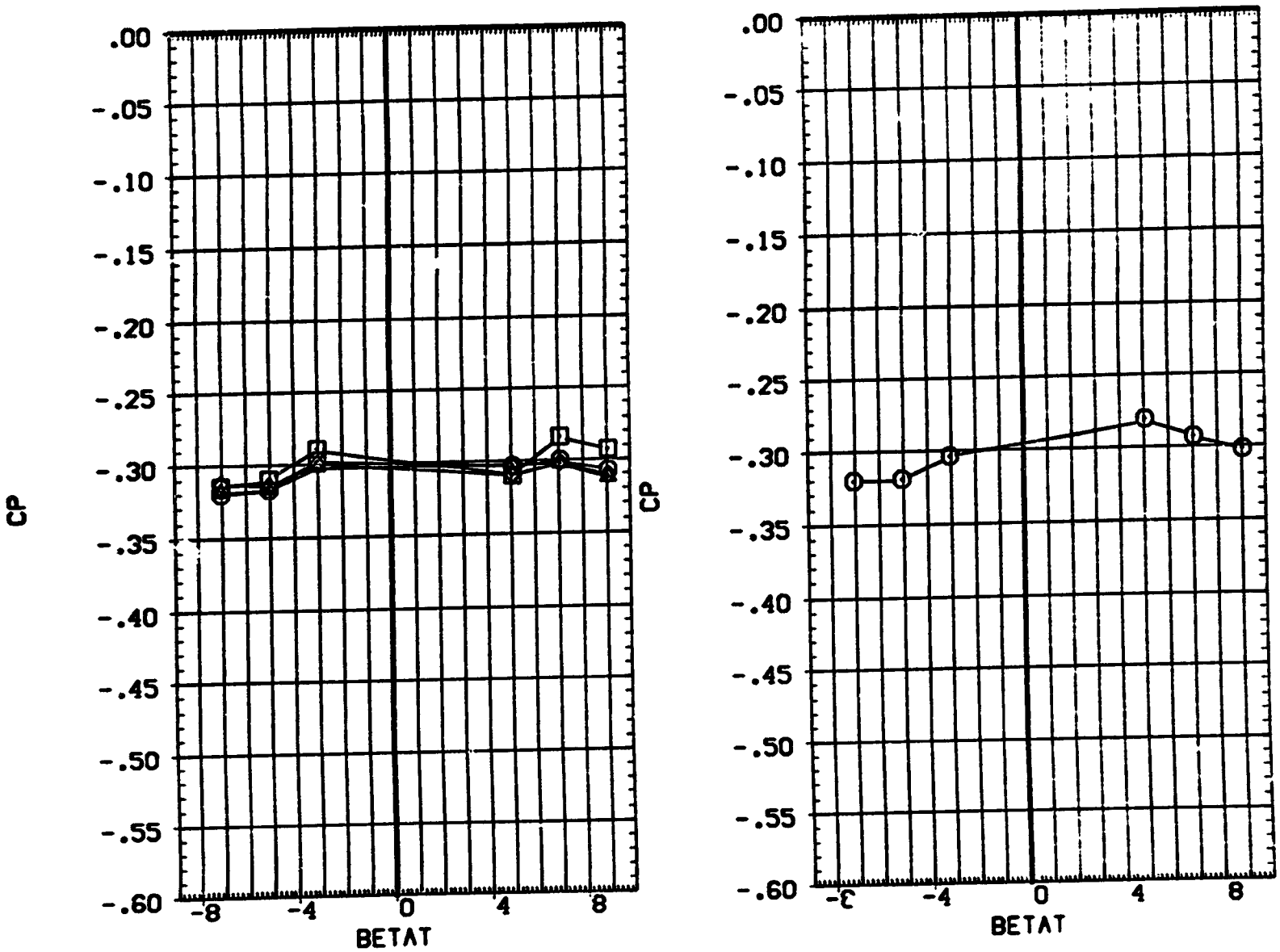
SRM BOOSTER BASE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER BASE (RBOX06)

SYMBOL	PHI	X/LS	MACH
○	.000	.985	1.555
□	90.000	1.000	
◇	180.000		
△	270.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



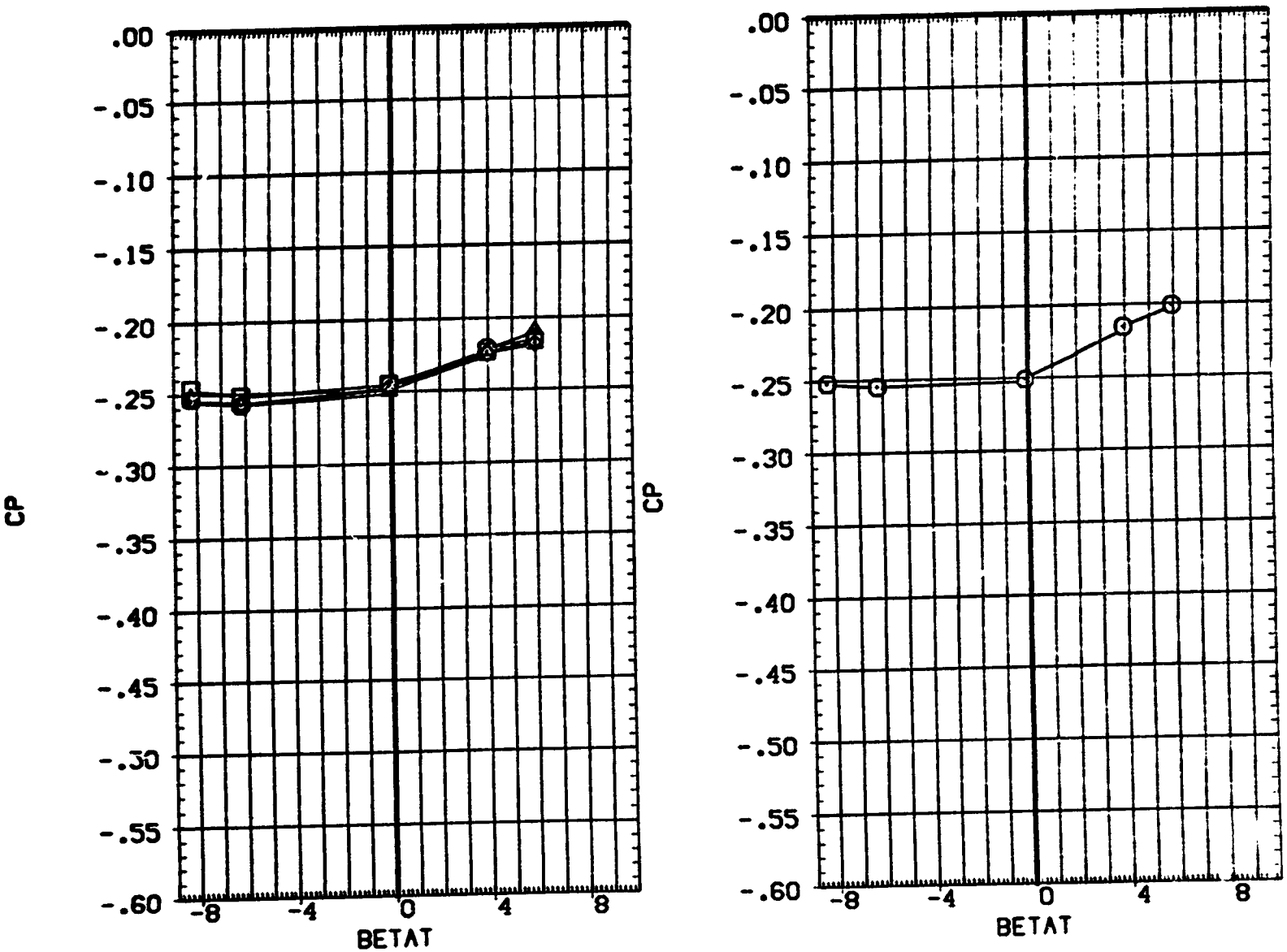
SRM BOOSTER BASE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 SRM BOOSTER BASE (REDUCED)

SYMBOL	PHI	X/LS	MACH
○	.000	.985	2.000
□	90.000	1.000	
◇	180.000		
△	270.000		

PARAMETRIC VALUES

ALPHAT	.0000	ORBINC	.500
RUDDER	.0000	ELEVON	.000
RUDFLR	.0000		



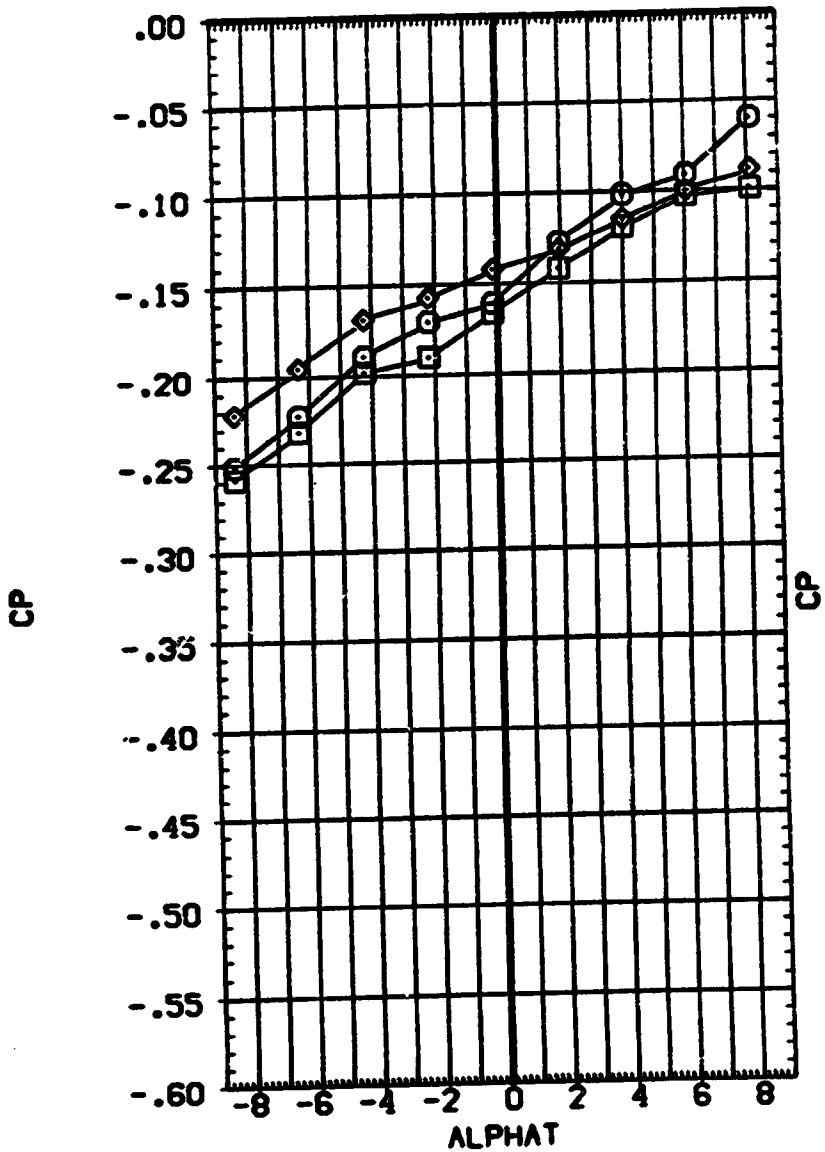
SRM BOOSTER BASE PRESSURES

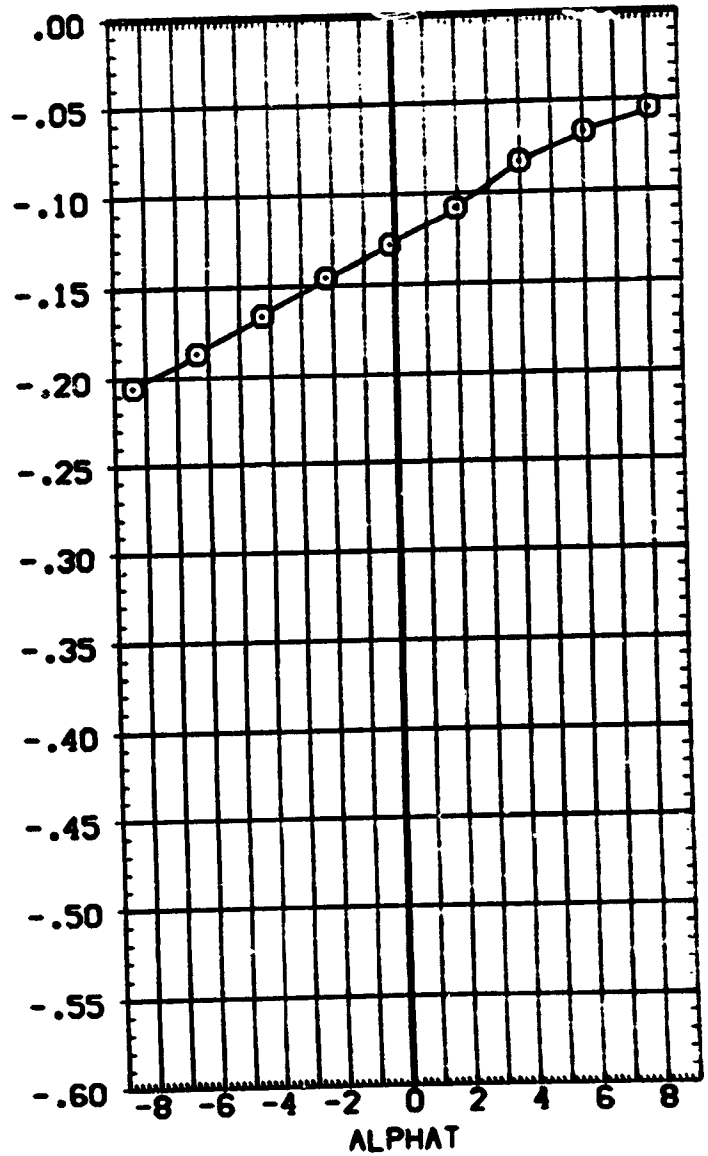
AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK BASE(RBOYO1)

SYMBOL	PHI	X/LT	MACH
○	.000	.977	1.555
□	90.000	1.000	
◇	180.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		





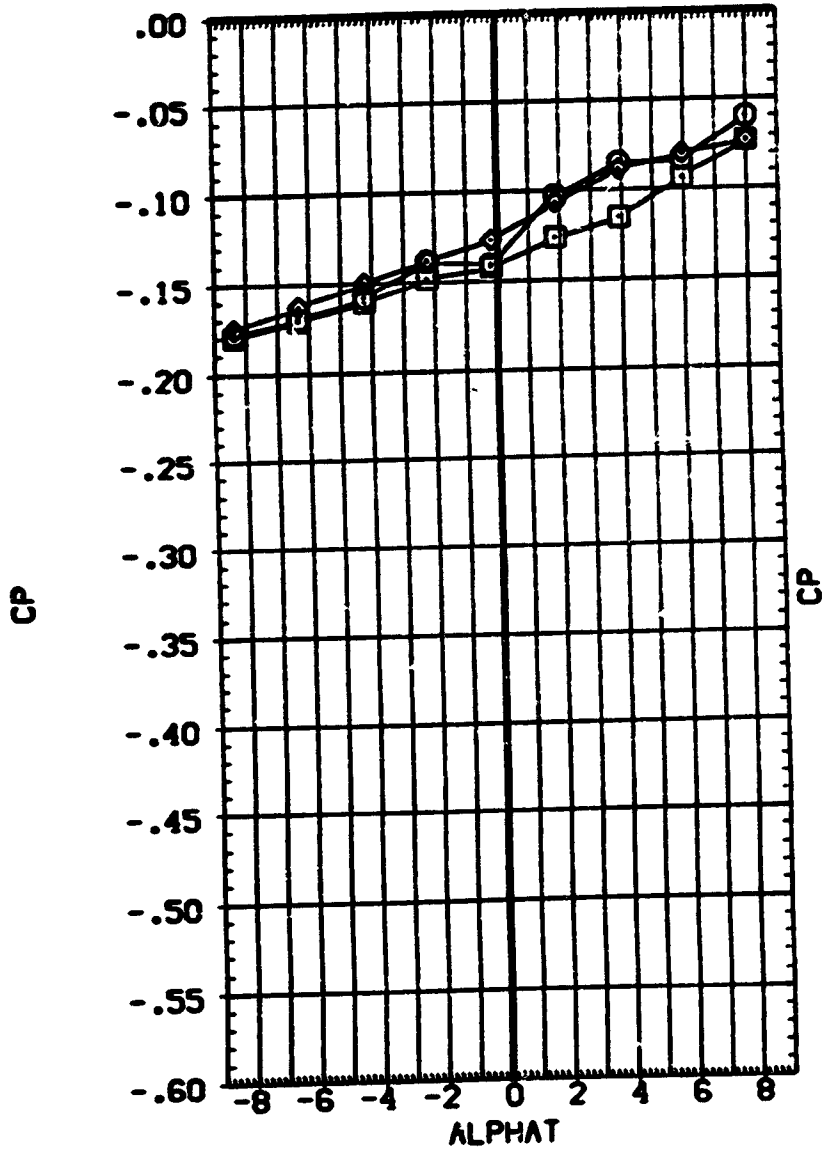
EXTERNAL TANK BASE PRESSURES

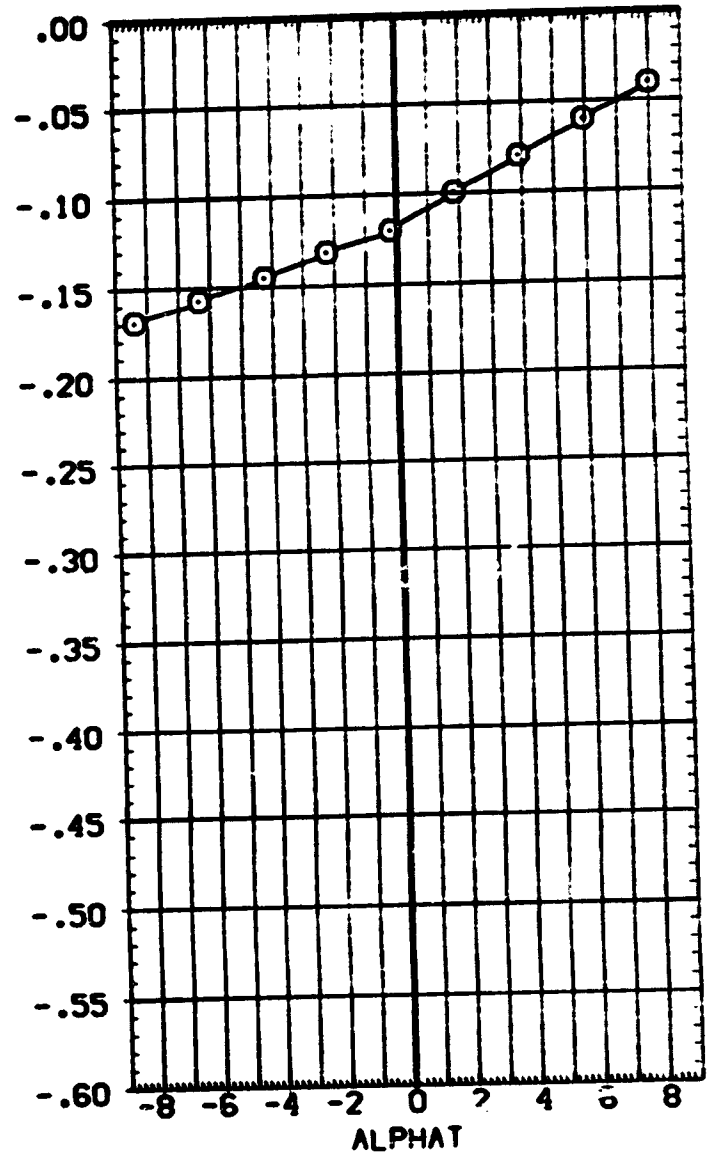
AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK BASE (RBCYC:)

SYMBOL	PHI	X/LT	MACH
○	.000	.977	2.000
□	90.000	1.000	
◇	180.000		

PARAMETRIC VALUES

BETA	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		





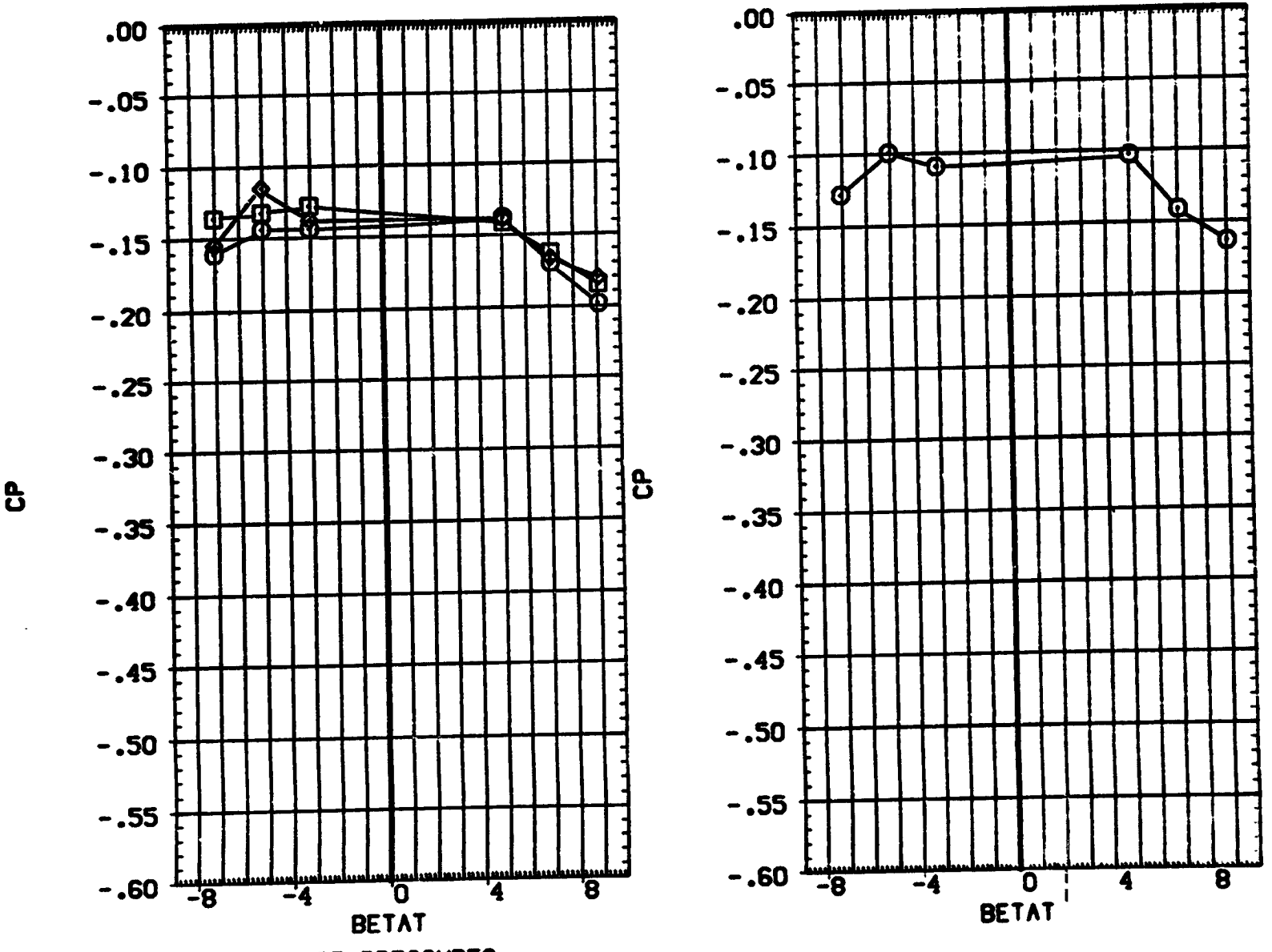
EXTERNAL TANK BASE PRESSURES

AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK BASE (RBOYC6)

SYMBOL	PHI	X/LT	MACH
○	.000	.977	1.555
□	90.000	1.000	
◇	180.000		

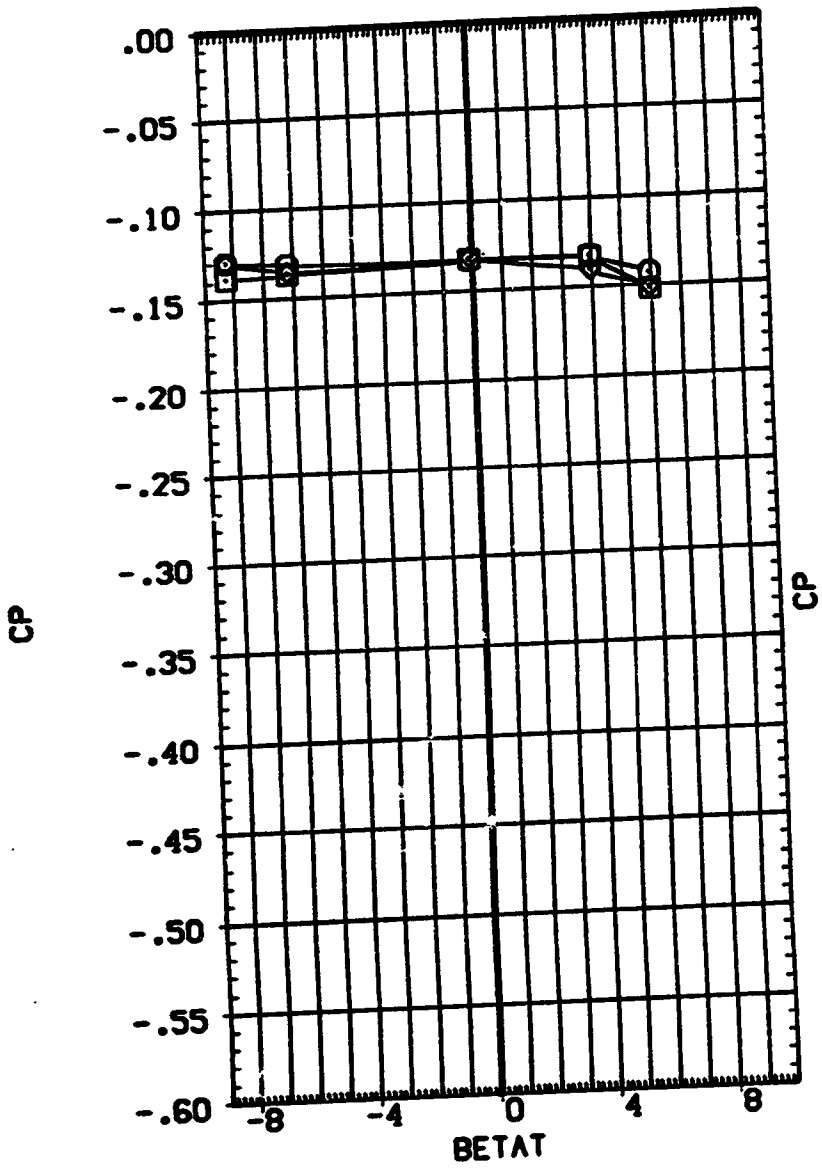
PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

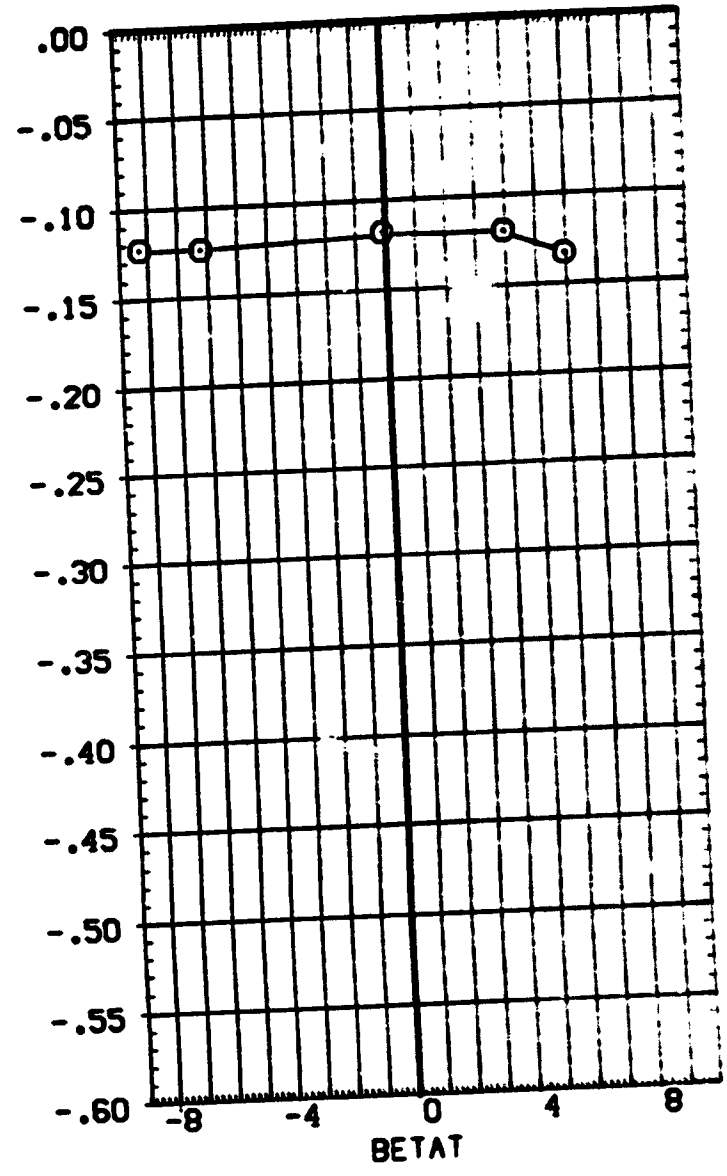


EXTERNAL TANK BASE PRESSURES

SYMBOL	PHI	X/LT	MACH
○	.000	.977	2.000
□	90.000	1.000	
◇	180.000		



ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



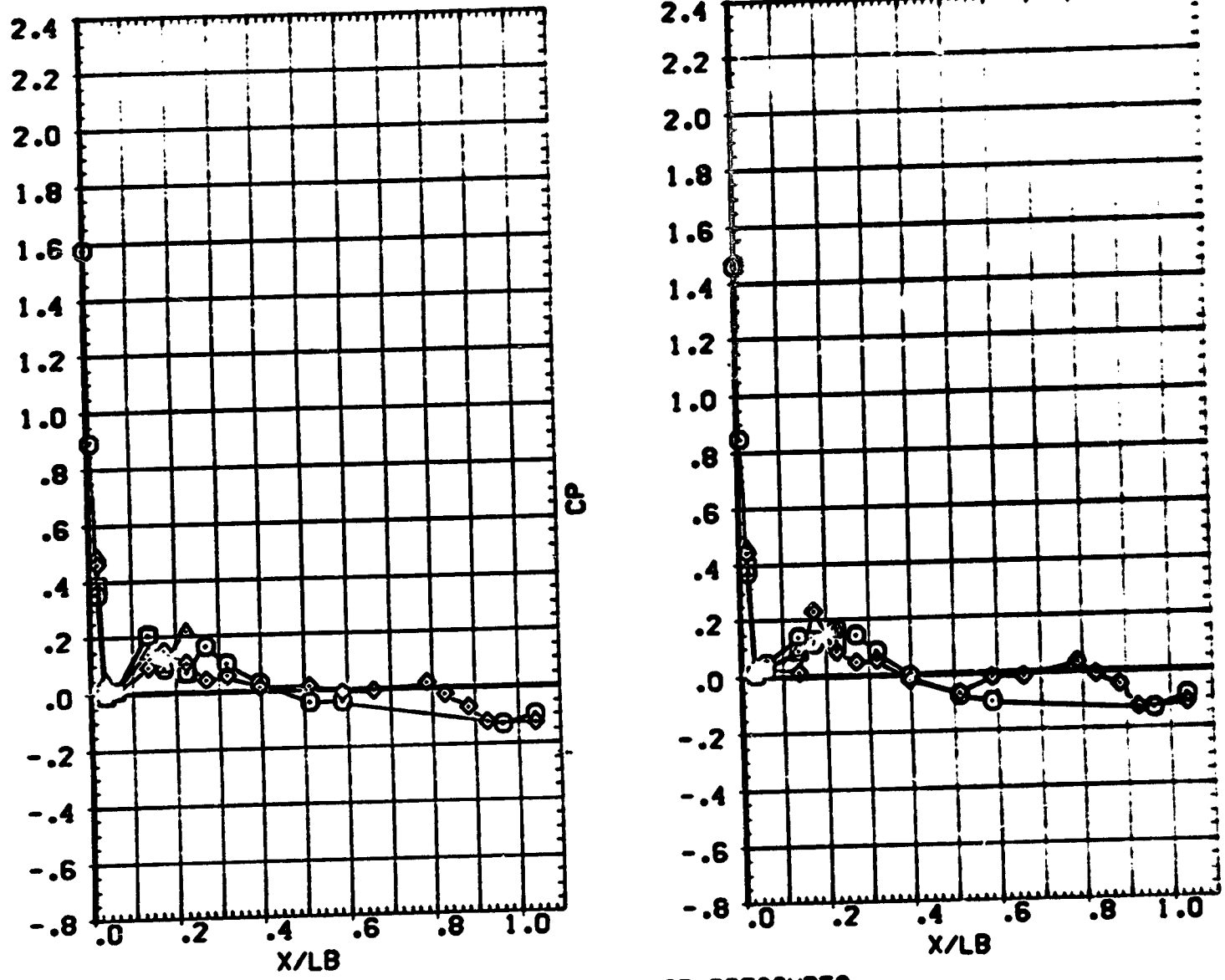
EXTERNAL TANK BASE PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNBC:)

SYMBOL	PH:	ALPHAT	MACH
○	.000	-4.030	2.498
◇	20.000	.000	
△	40.000		
	55.000		

PARAMETRIC VALUES

BETAT	.000	[illegible]	.000
RUDDER	.000	[illegible]	.000
RUDLR	.000		



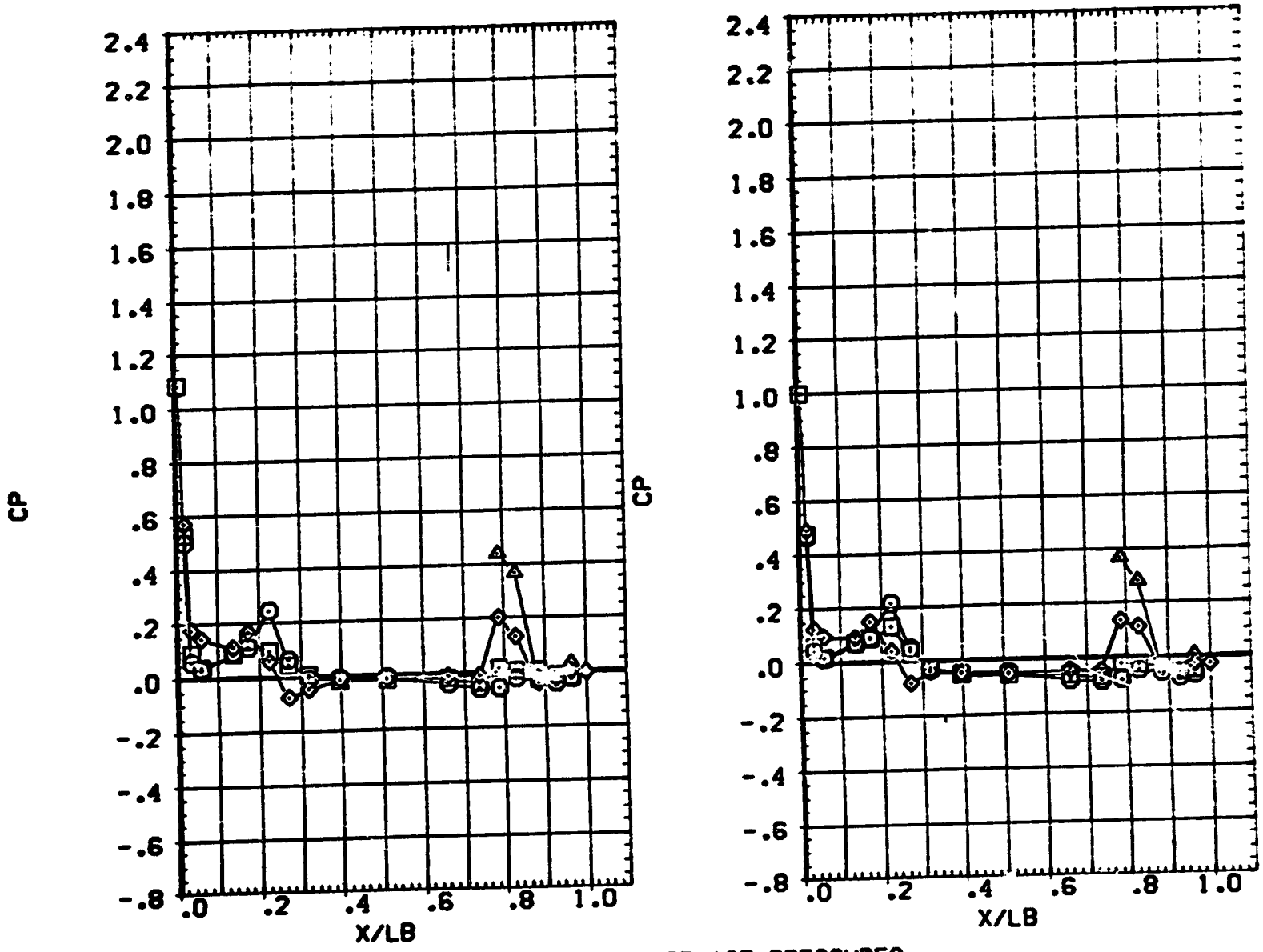
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNBC:)

SYMBOL	PHI	ALPHAT	MACH
□	70.000	-4.030	2.498
◇	90.000	.000	
○	120.000		
△	135.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



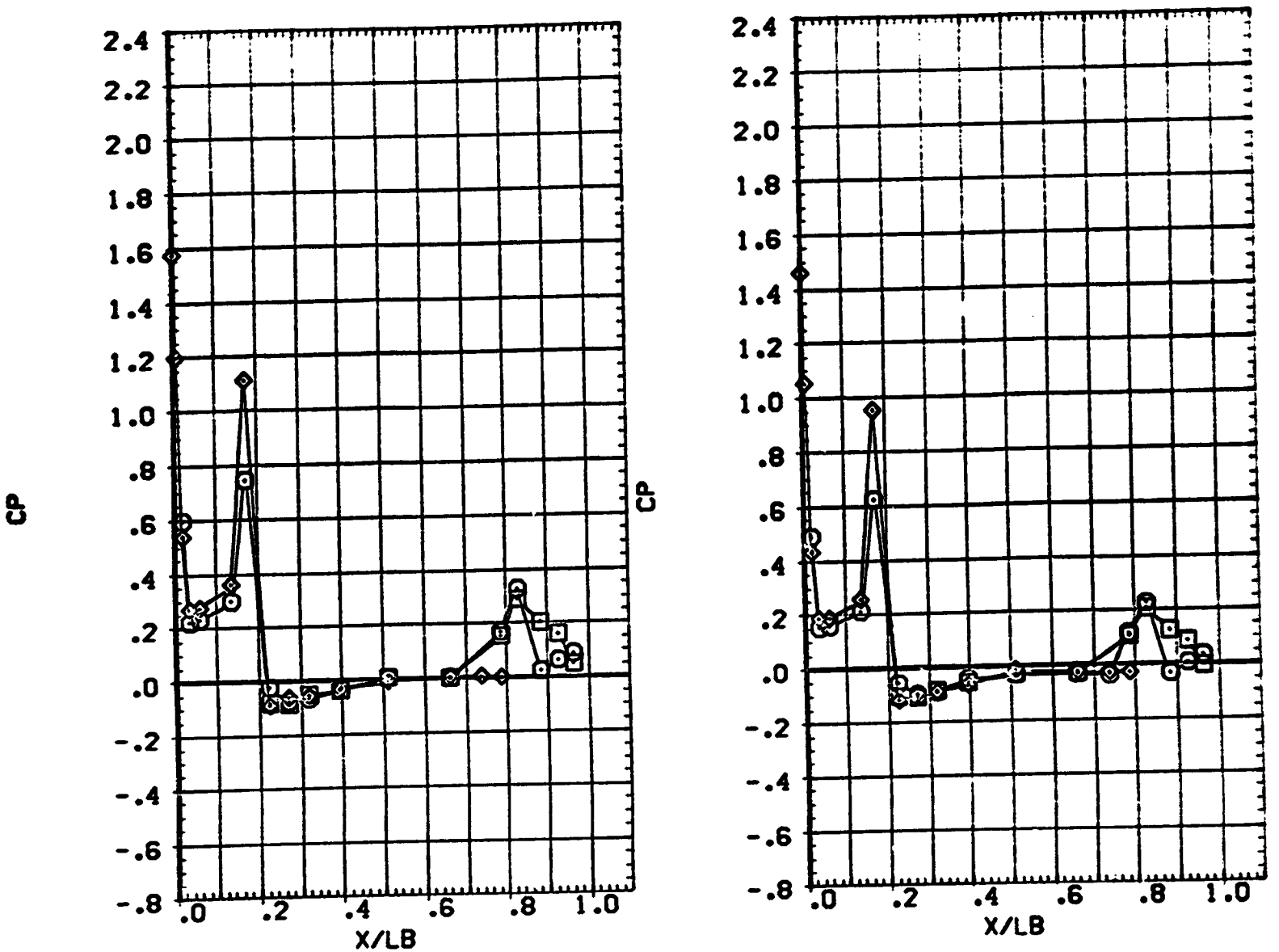
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 :A9 32A + S3 + T9 ORBITER FUSELAGE (RBN30:)

SYMBOL	PHI	ALPHAT	MACH
○	:50.000	-4.030	2.498
□	165.000	.000	
◇	:80.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



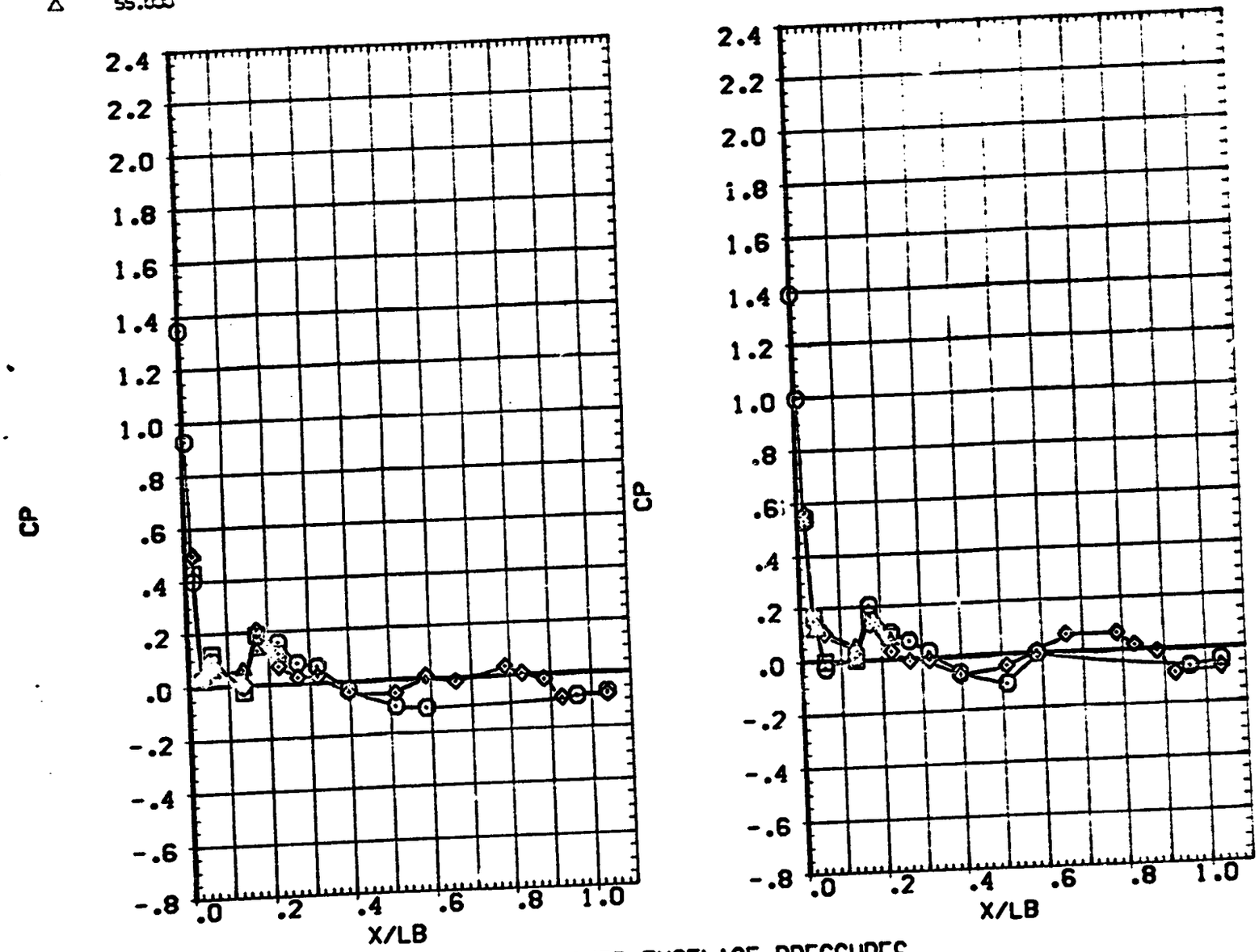
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RB\BC:)

SYMBOL	PHI	ALPHAT	MACH
○ | □	.000	3.900	2.498
◇	20.000	8.010	
△	40.000		
	55.000		

PARAMETRIC VALUES

BETAT	.000	ORB\C	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



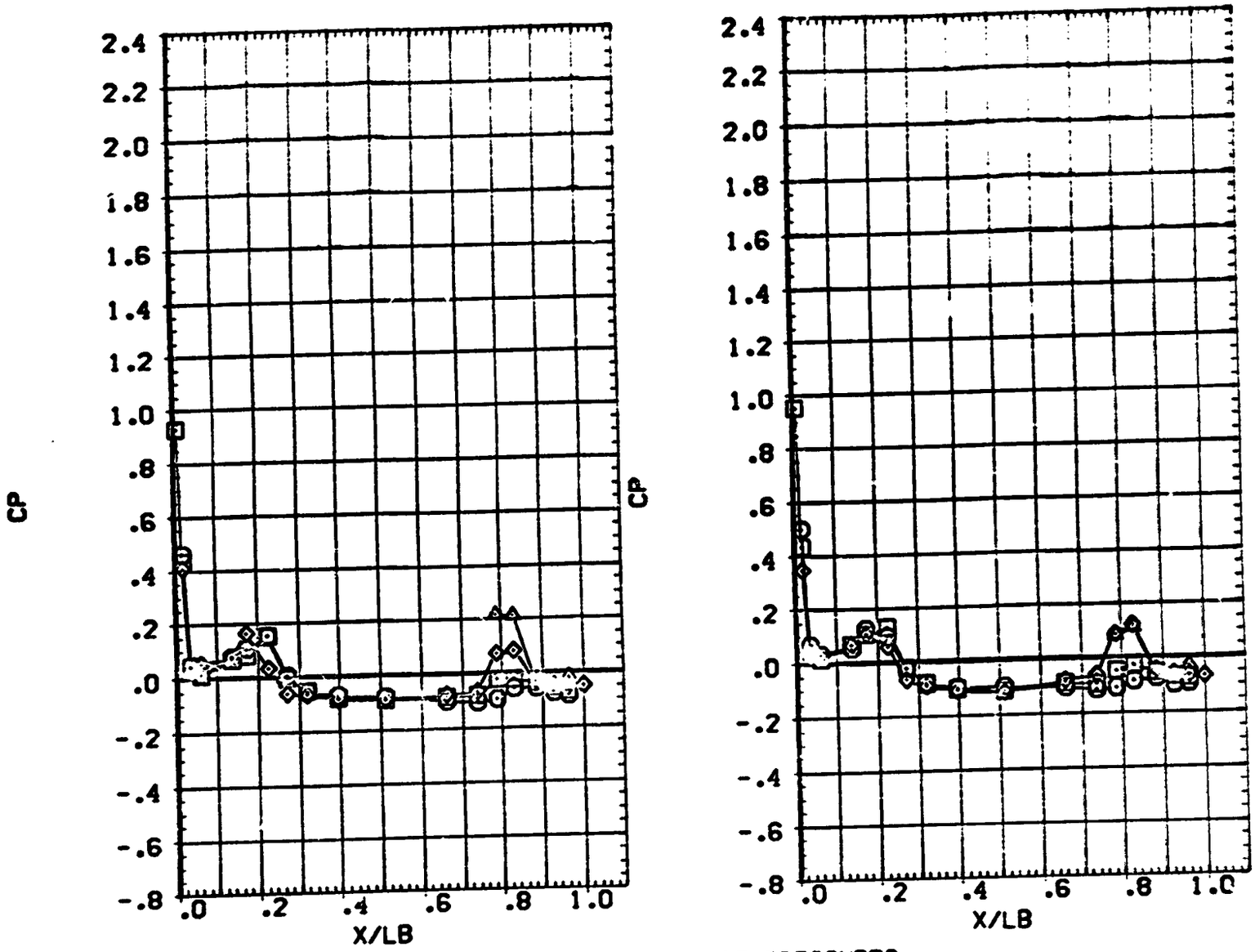
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 (A9 02A + S3 + T9 ORBITER FUSELAGE (RBN30))

SYMBOL	PHI	ALPHAT	MACH
○	70.000	3.900	2.498
□	90.000	8.010	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

BETAT	.000	SPRINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



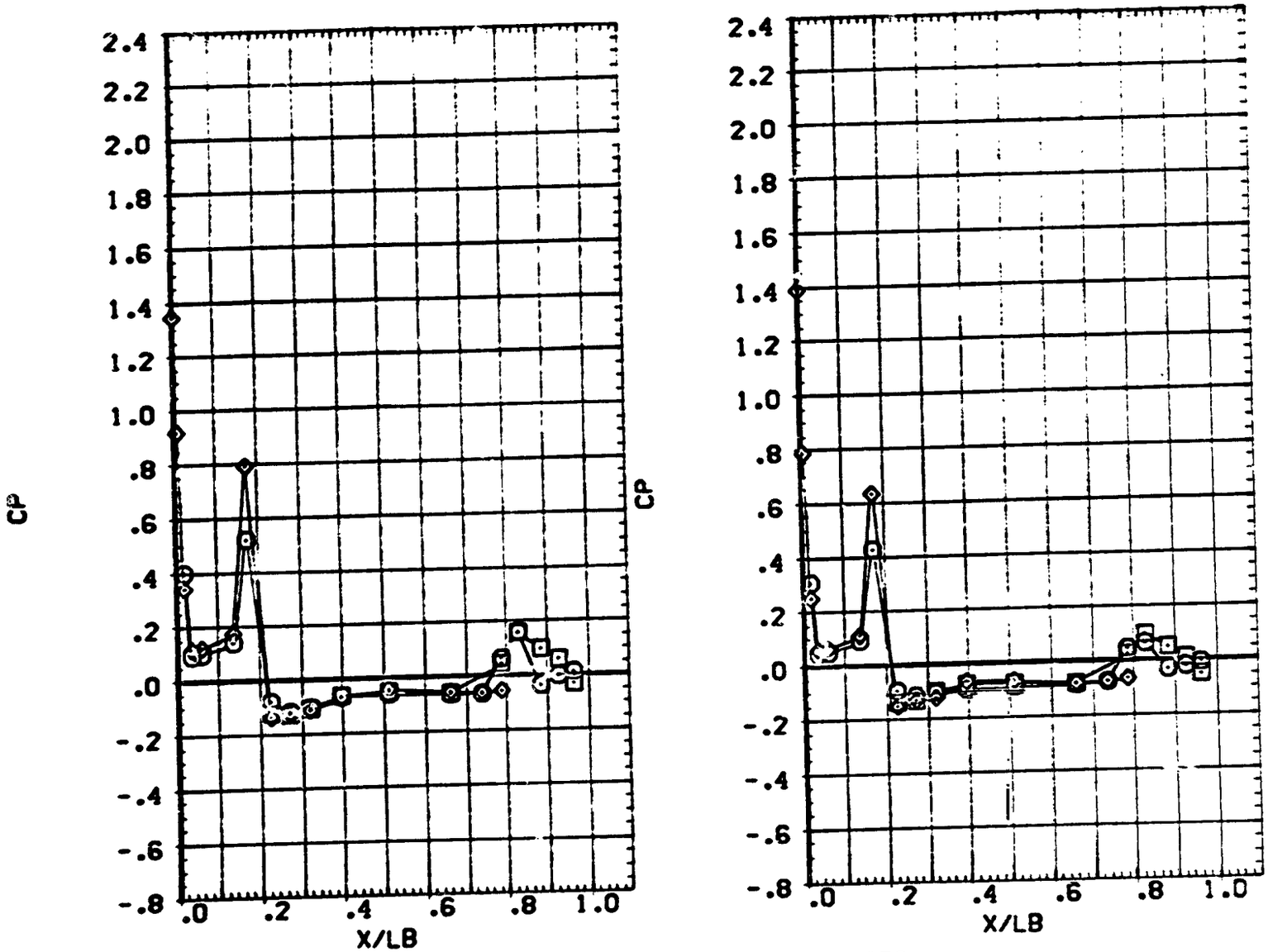
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AYES 87-707 :A8 C2A - S3 - '8 ORBITER FUSELAGE (RBNBC:)

SYMBOL	PHI	ALPHAT	MACH
○	:50.000	3.900	2.498
□	:65.000	8.010	
◇	:80.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROLLER	.000		



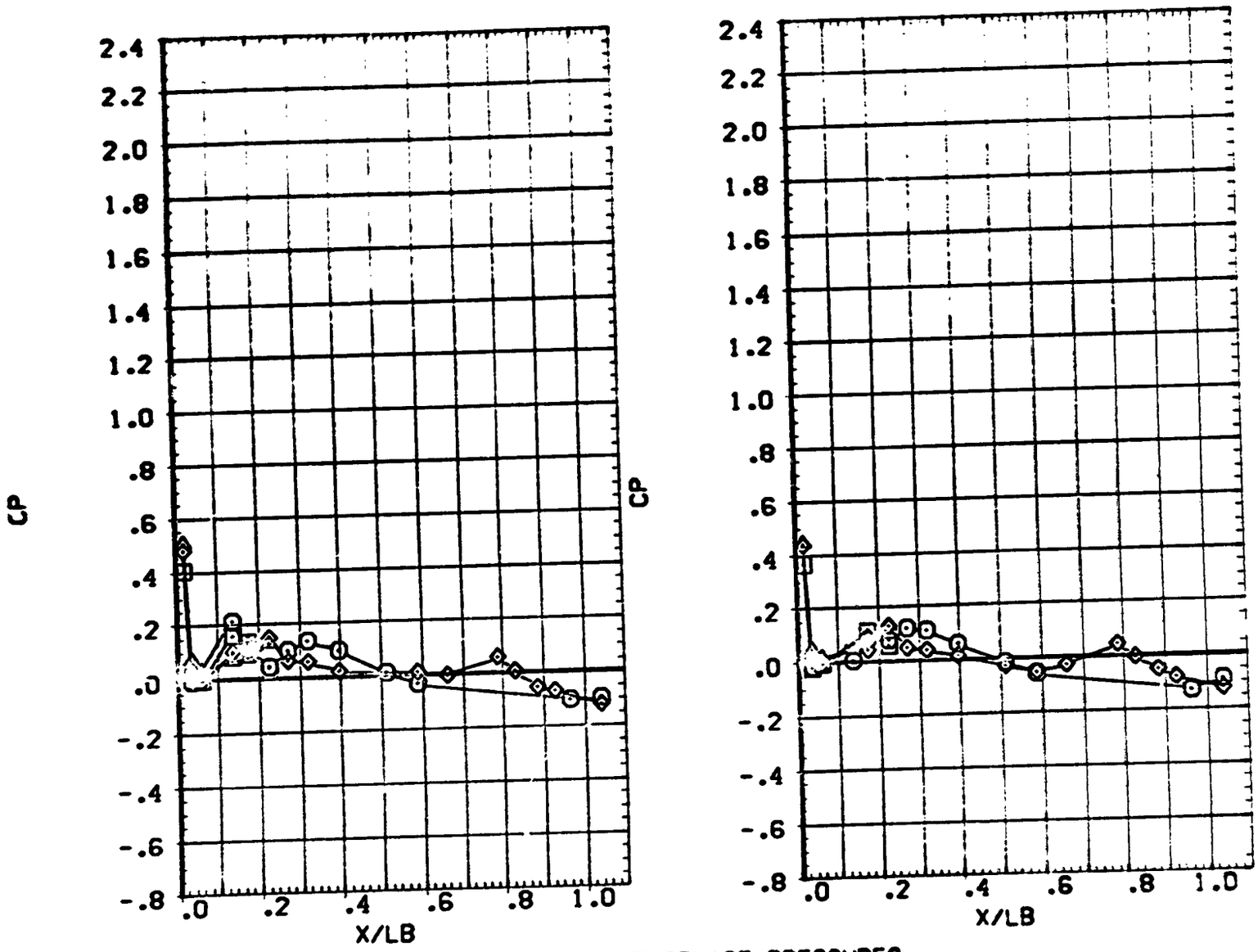
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBNBO1)

SYMBOL	PHI	ALPHAT	MACH
○	.000	-4.070	2.999
□	20.000	-.010	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

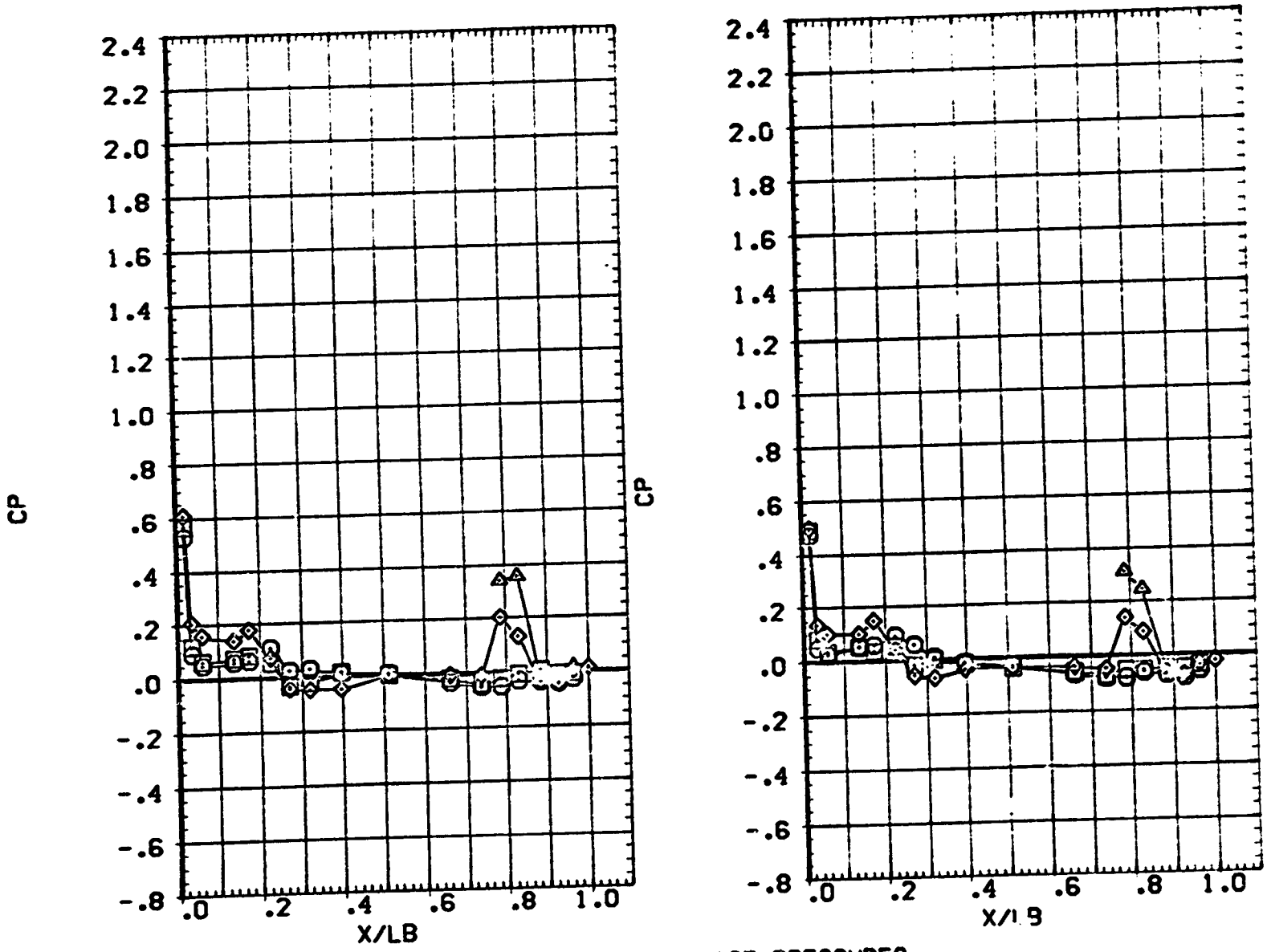


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL	PHI	ALPHAT	MACH
○	70.000	-4.070	2.999
◇	90.000	-.010	
△	120.000		
△	135.000		

PARAMETRIC VALUES

BETAT	.000	SBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



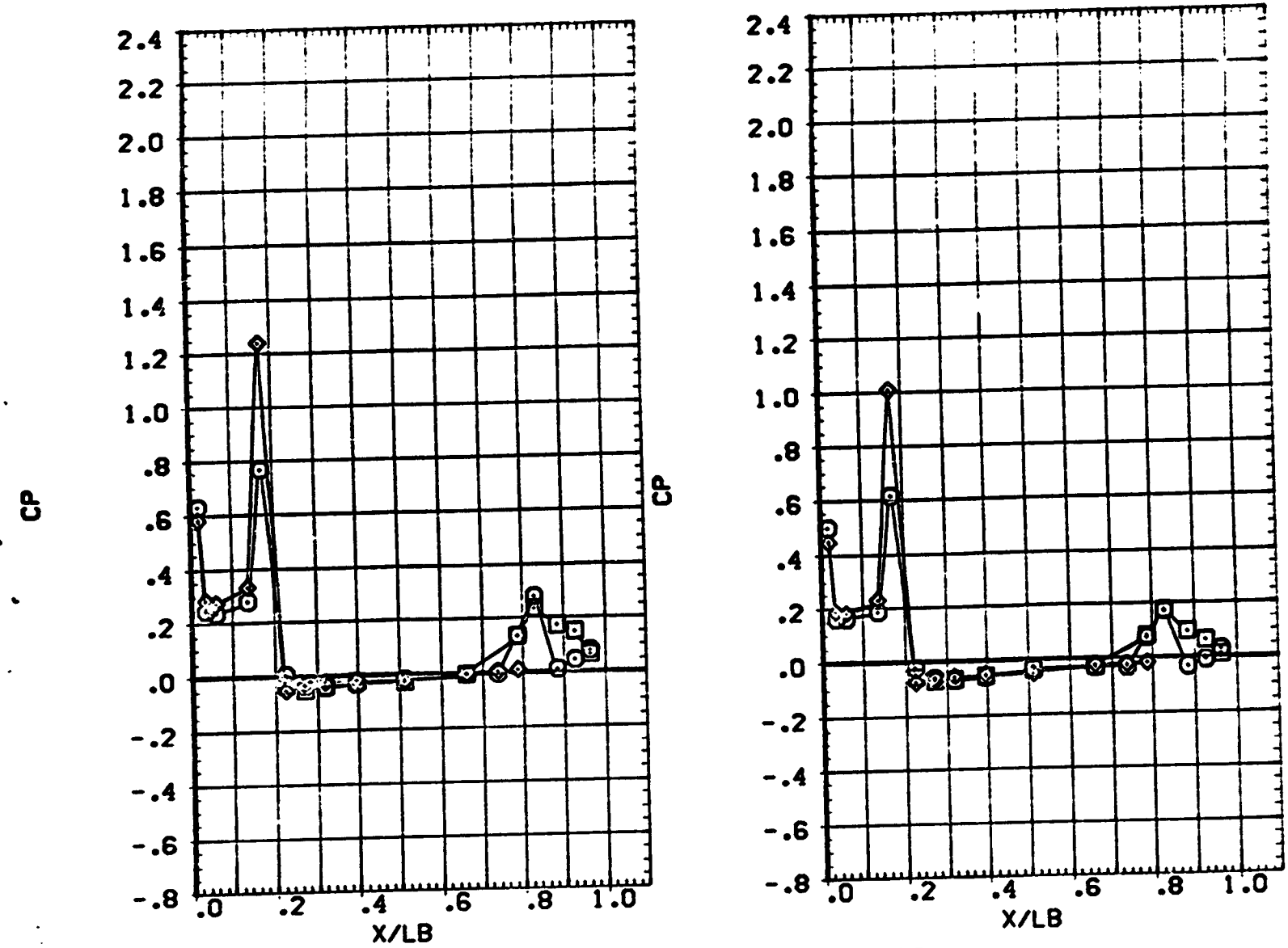
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNBC1)

SYMBOL	PHI	ALPHAT	MACH
○	150.000	-4.070	2.999
□	165.000	-.010	
◇	180.000		

PARAMETRIC VALUES

BETAT	.000	DRBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



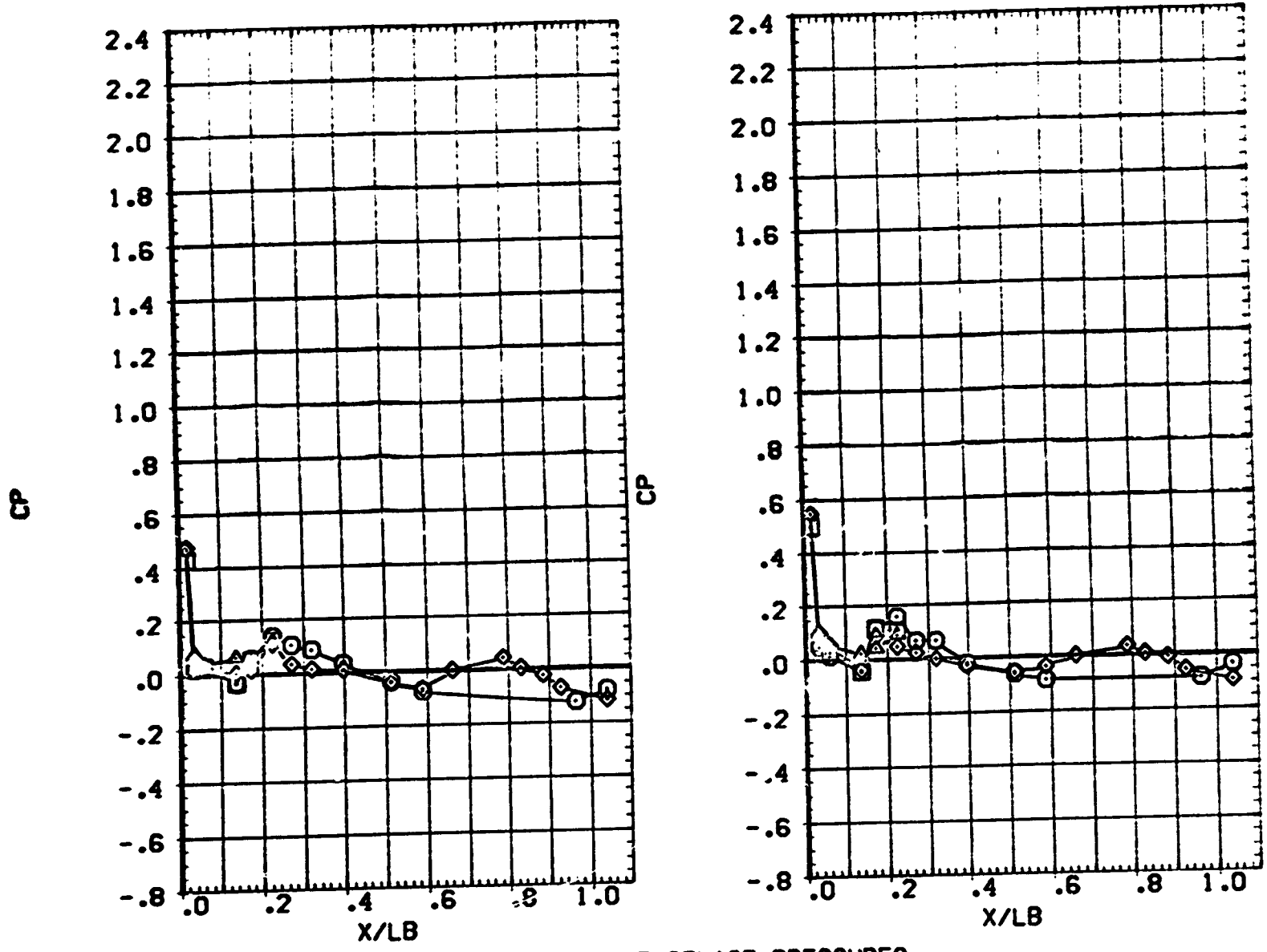
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 02A - S3 - T9 ORBITER FUSELAGE (RB\BC:)

SYMBOL	PHI	ALPHAT	MACH
○	.000	3.960	2.999
□	20.000	8.000	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

BETA	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



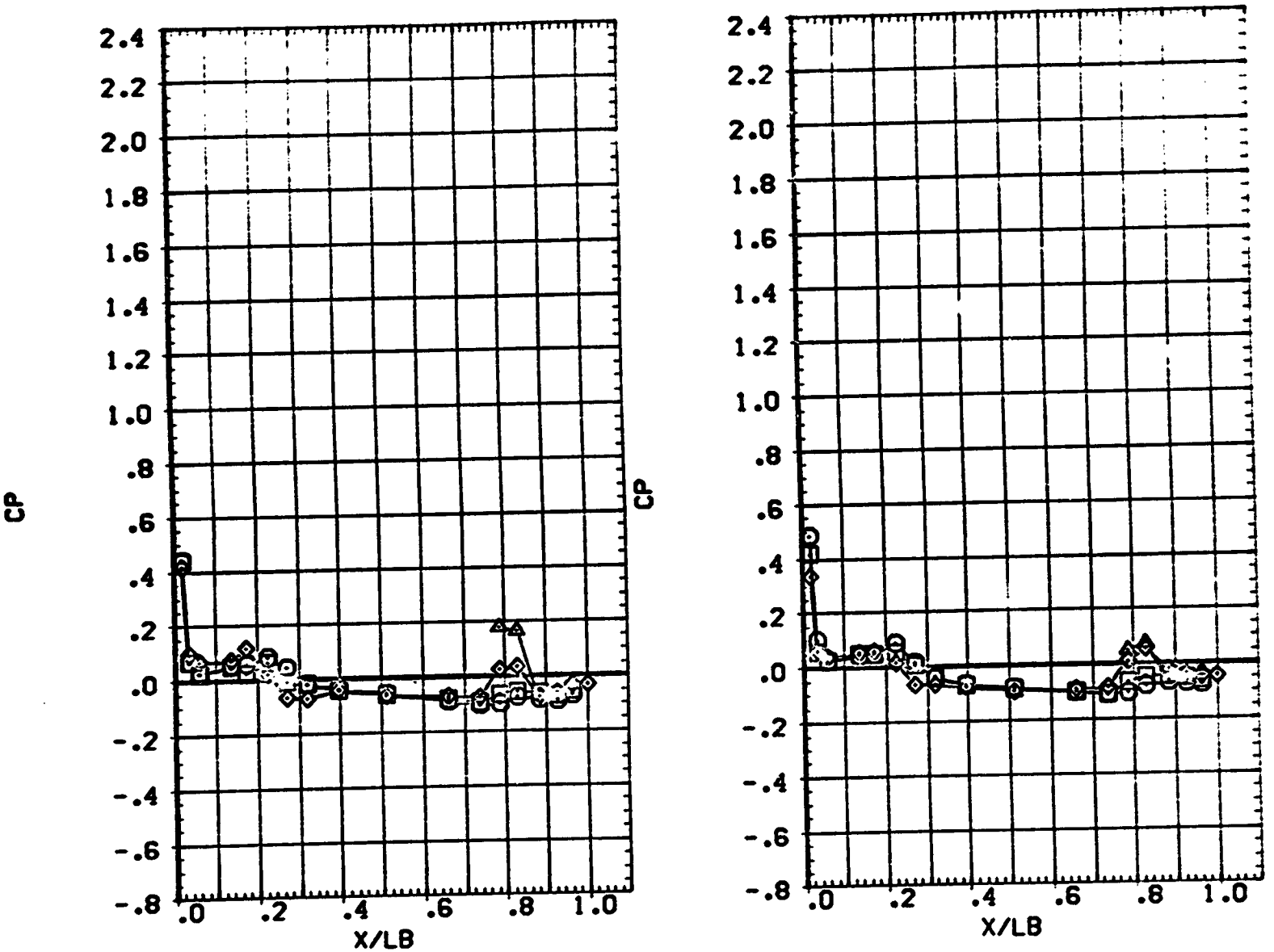
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBN301)

SYMBOL	PHI	ALPHAT	MACH
□	70.0000	3.960	2.999
○	90.0000	8.000	
◇	120.0000		
△	135.0000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.1000
RUDFLR	.000		



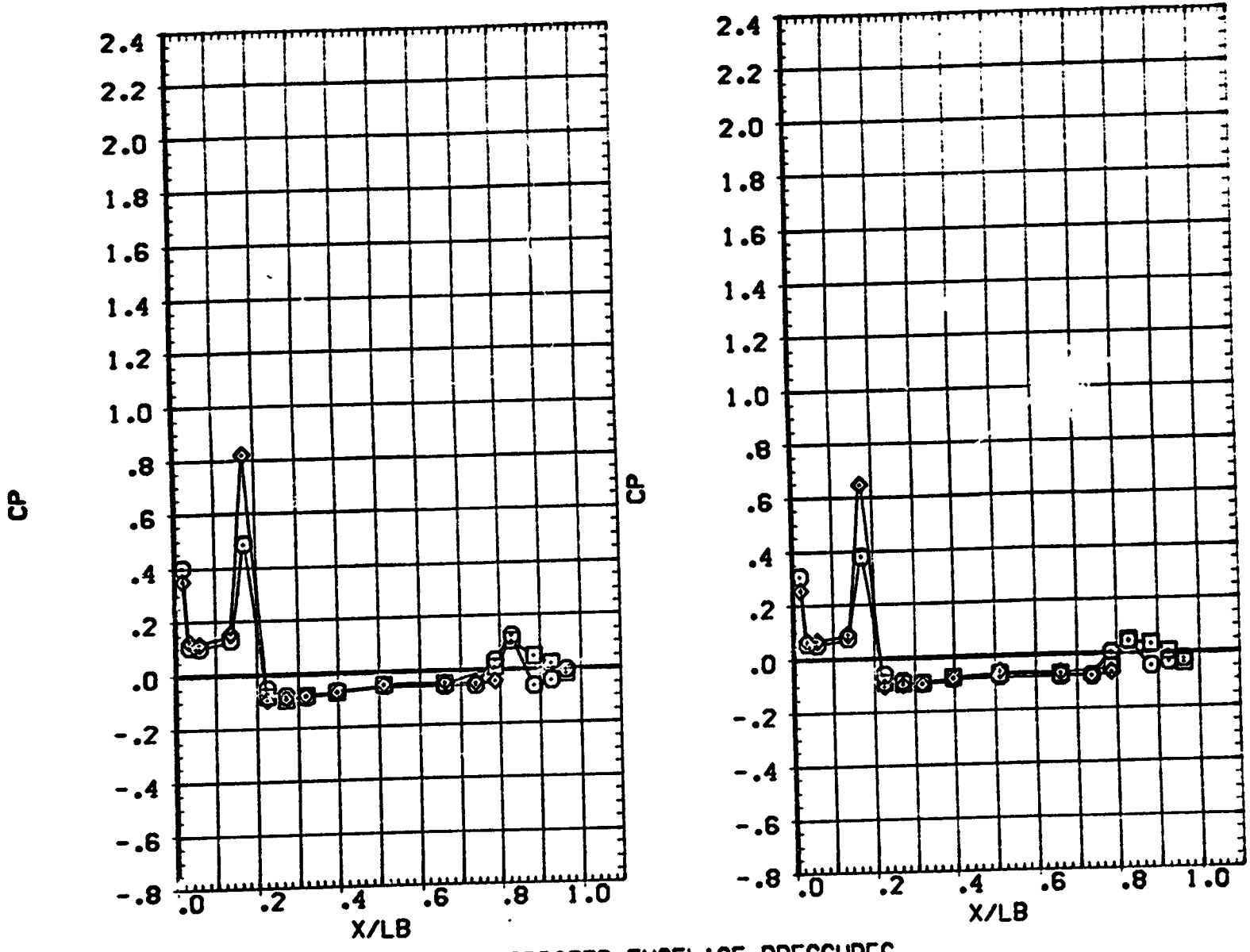
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RB\BO:)

SYMBOL	PHI	ALPHAT	MACH
○	150.000	3.960	2.999
□	165.000	8.000	
◇	180.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



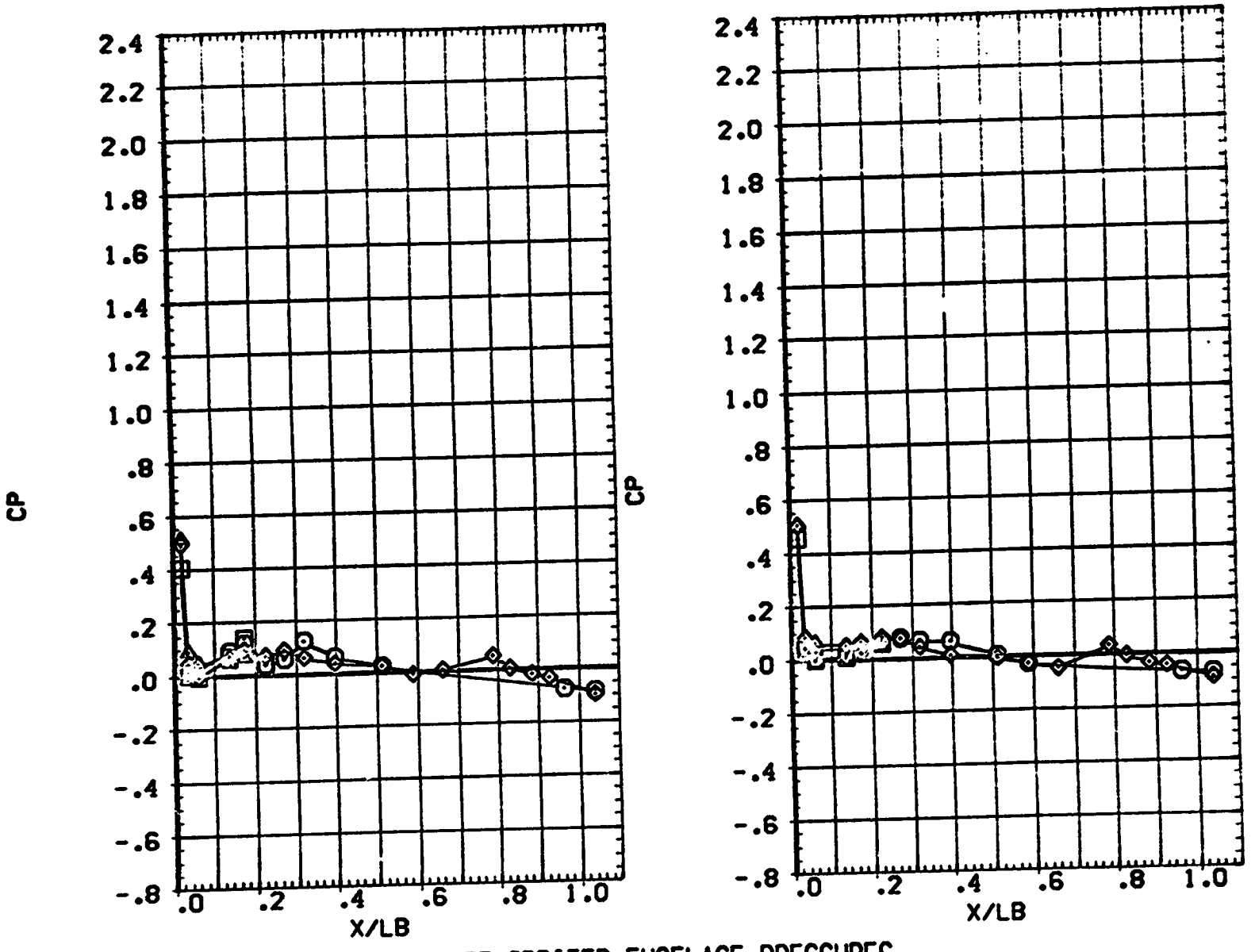
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNBO:)

SYMBOL	PHI	ALPHAT	MACH
○	.000	-4.070	3.502
□	20.000	-.030	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



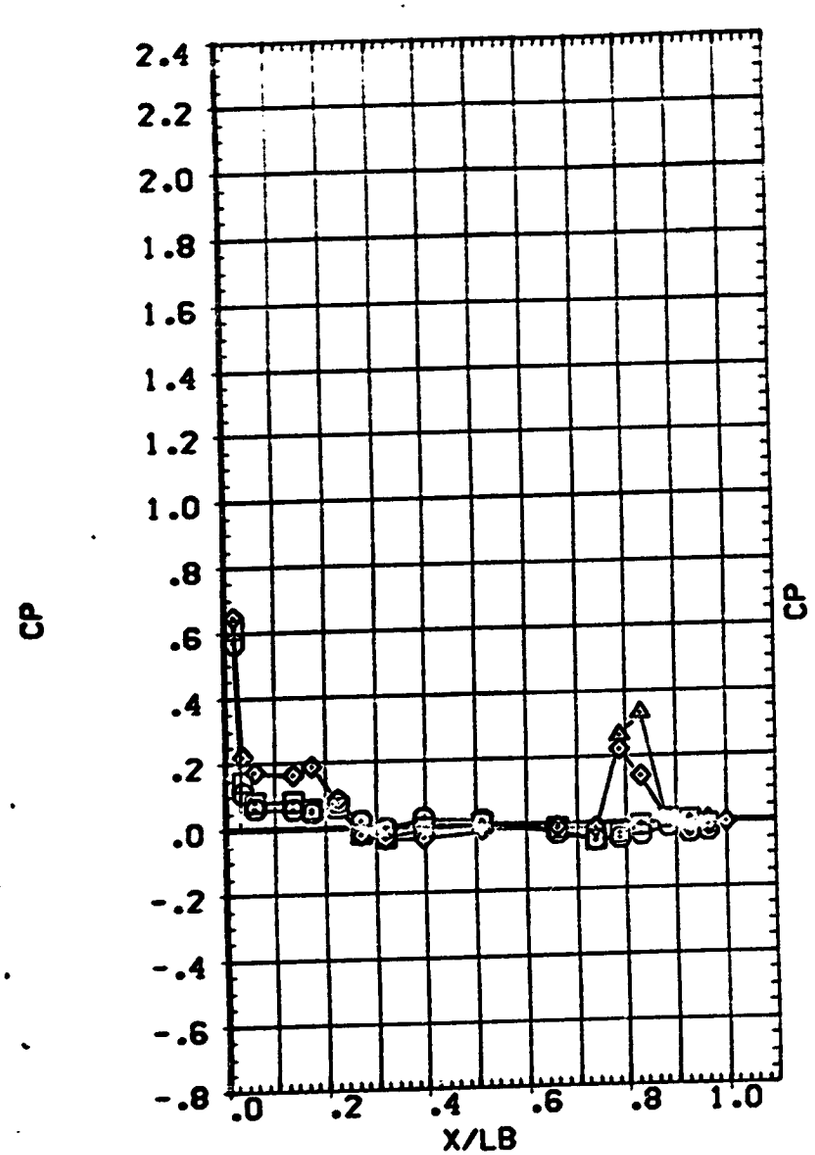
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

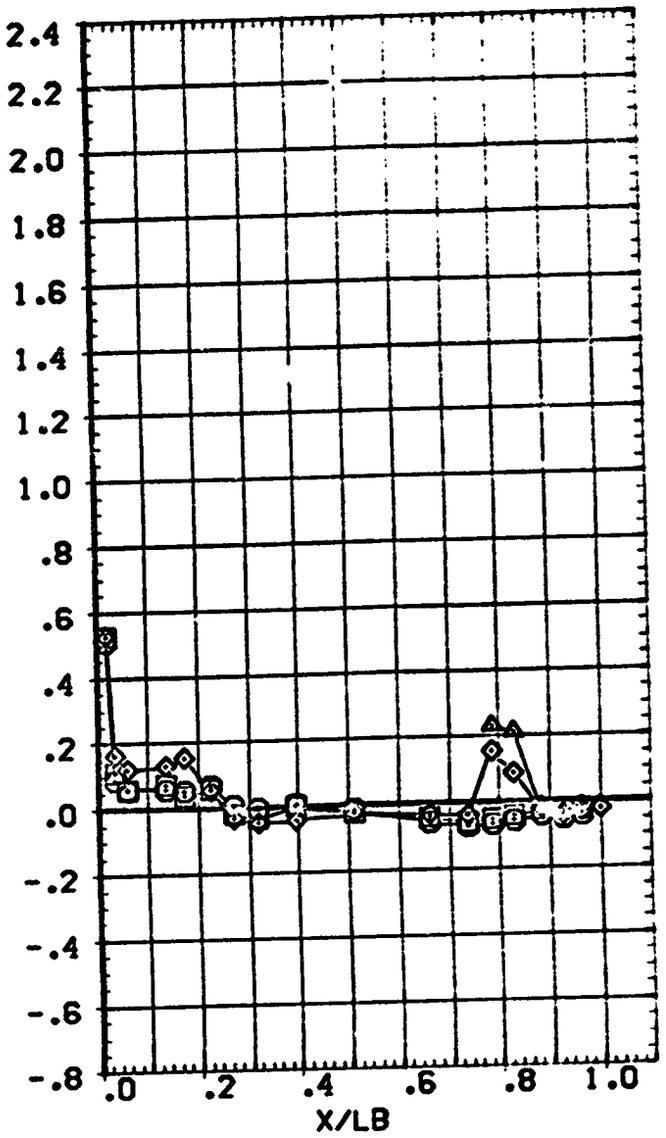
AXES OF JET INJECTION

SYMBOL	PHI	ALPHAT	MACH
○	70.0000	-4.070	3.502
◇	90.0000	-.030	
◇	120.0000		
△	135.0000		

PARAMETRIC VALUES

BETAT	.000	SPOINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		





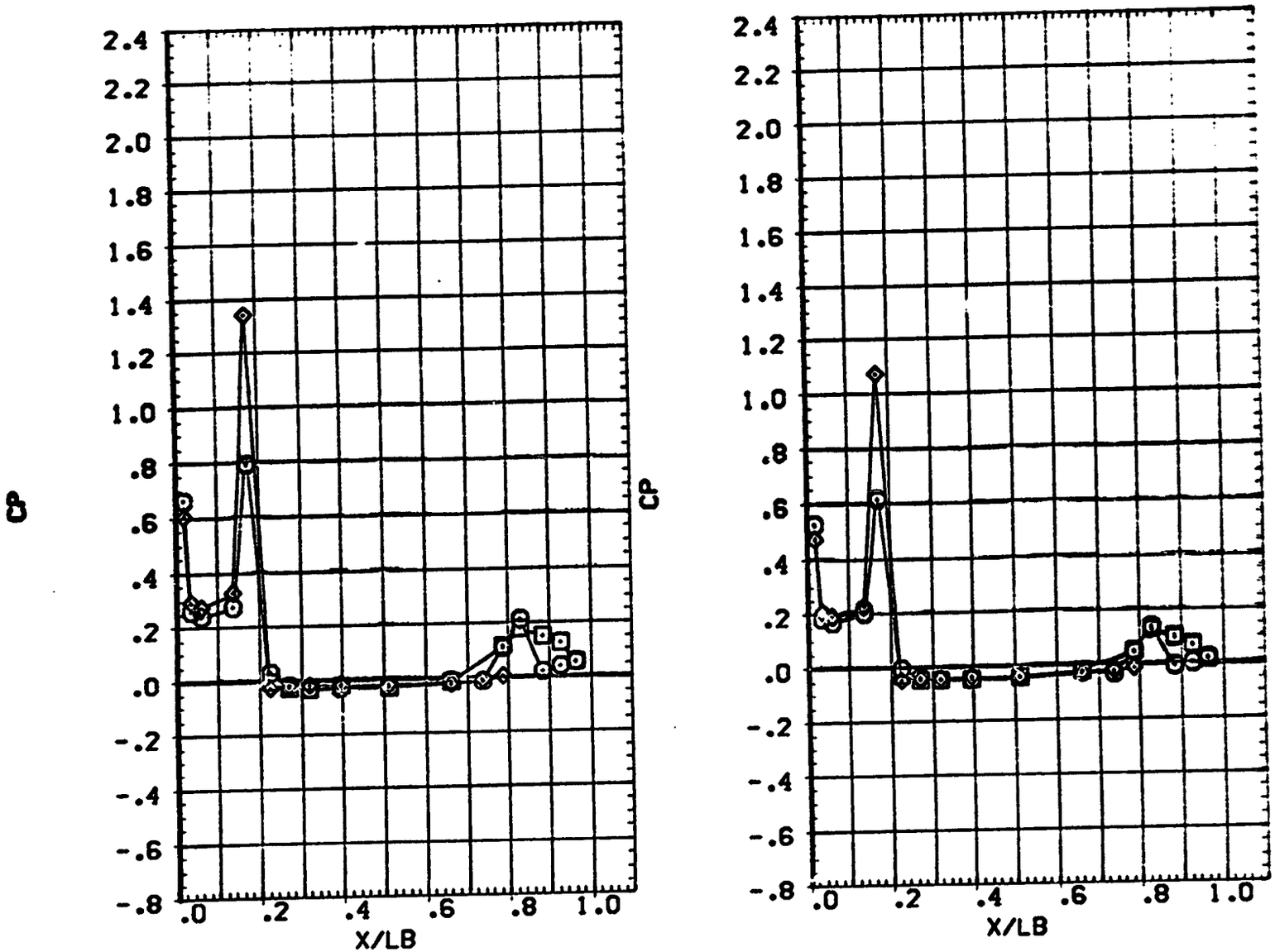
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBNB01)

SYMBOL	PHI	ALPHAT	MACH
◇	150.000	-4.070	3.502
	165.000	-.030	
	180.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



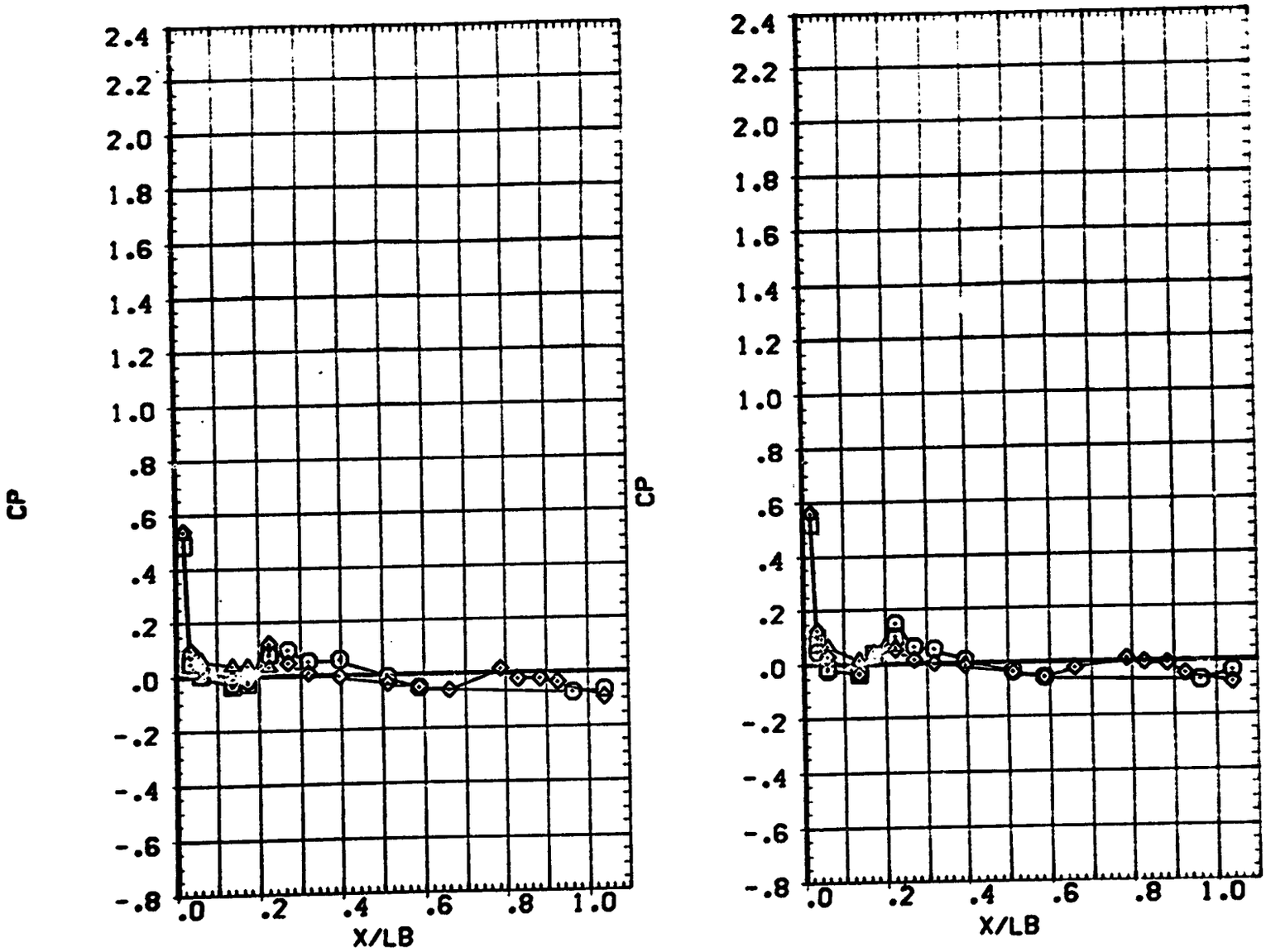
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES -

AMES 87-707 (A9 02A - S3 - T9 ORBITER FUSELAGE (RB\BC))

SYMBOL	PHI	ALPHAT	MACH
○	.000	3.950	3.502
◇	20.0000	8.010	
◇	40.0000		
△	55.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROFER	.000		



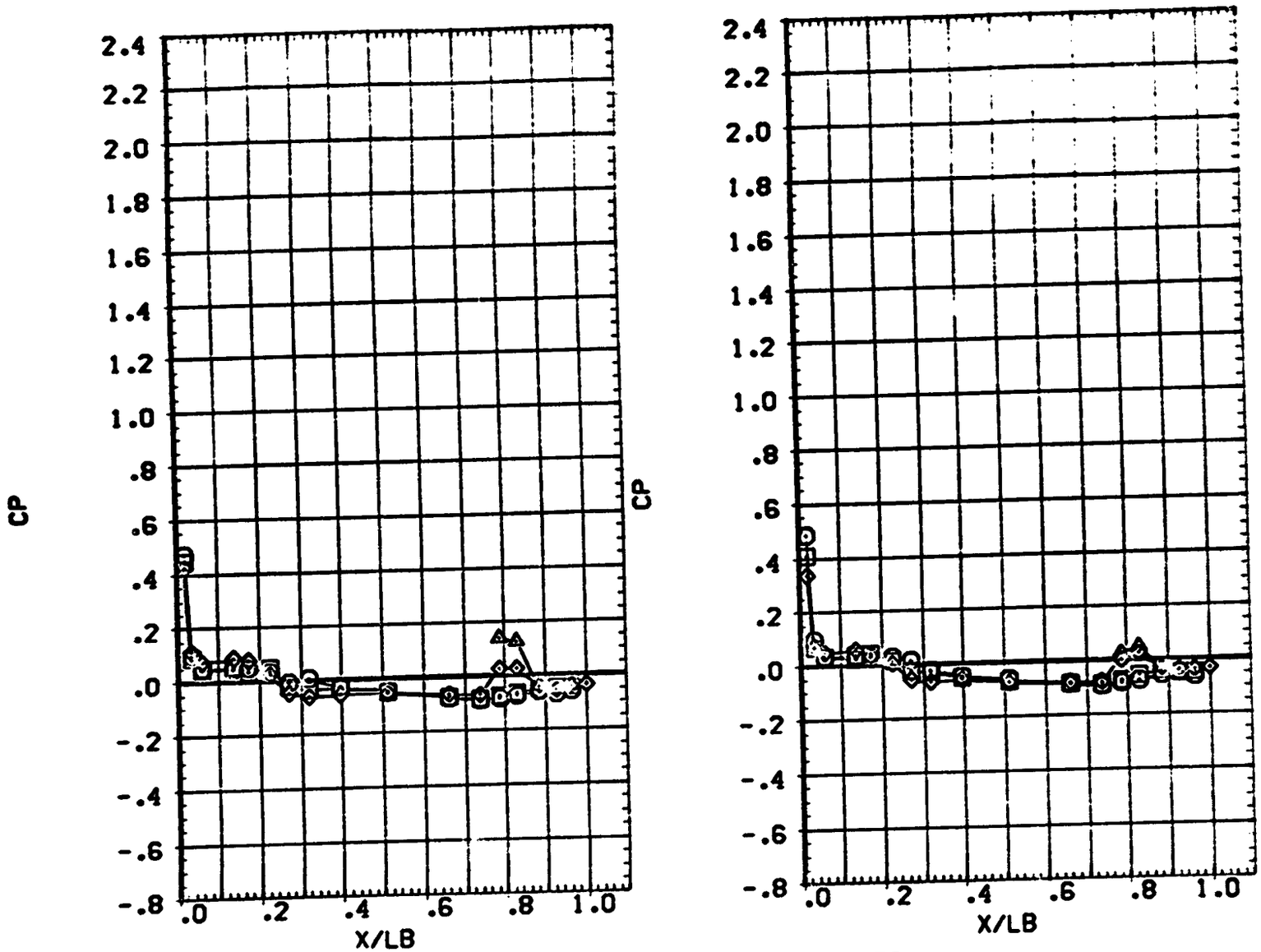
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 32A - S3 - T9 ORBITER FUSELAGE (RB\BC:)

SYMBOL	PHI	ALPHAT	MACH
○	70.0000	3.960	3.502
◇	90.0000	8.010	
□	120.0000		
△	135.0000		

PARAMETRIC VALUES

BETAT	.0000	ORBINC	.5000
RUDDER	.0000	ELEVON	.0000
ROLLR	.0000		



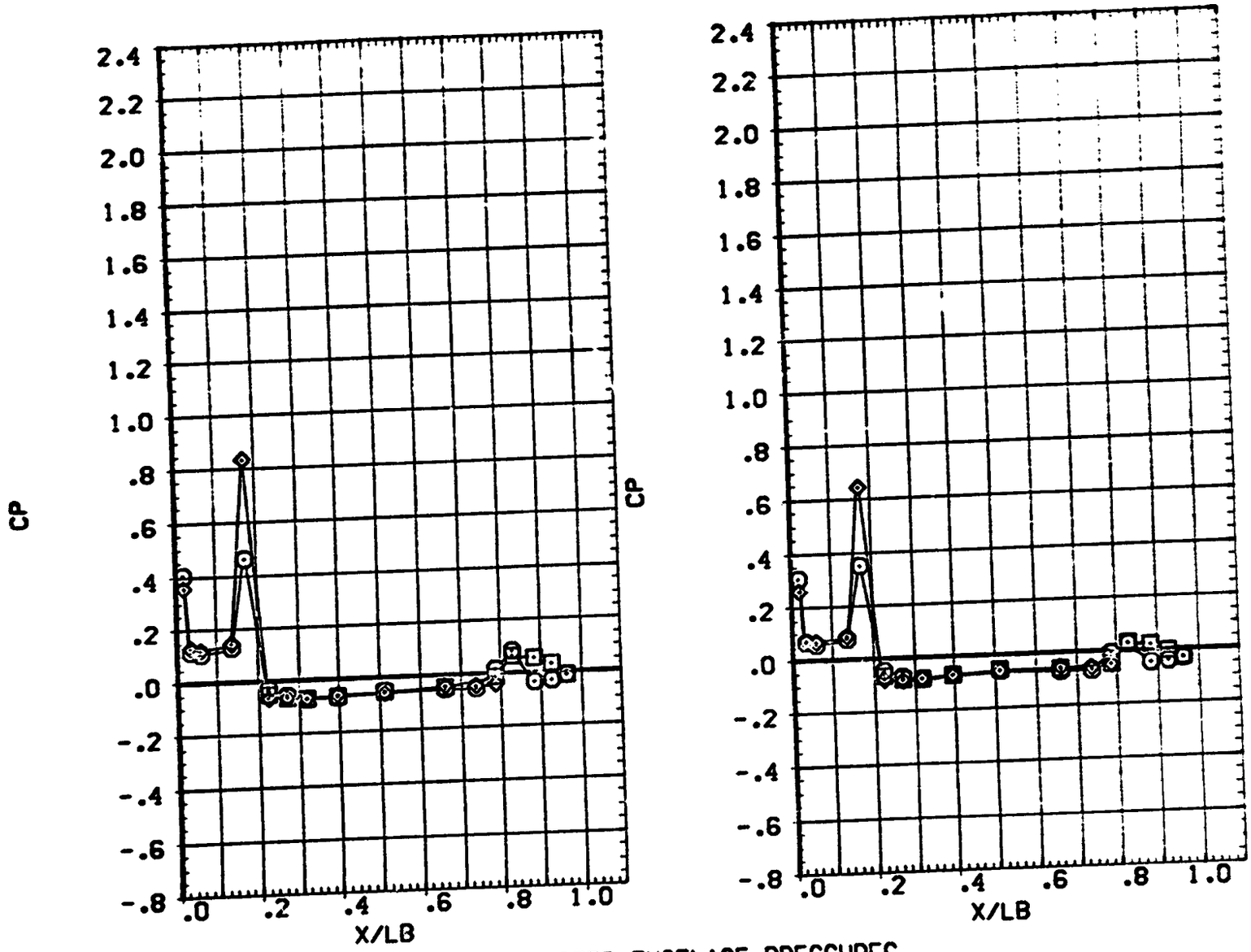
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNBO:)

SYMBOL	PHI	ALPHA	MACH
○	:50.000	3.960	3.502
□	:65.000	8.010	
◇	:80.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



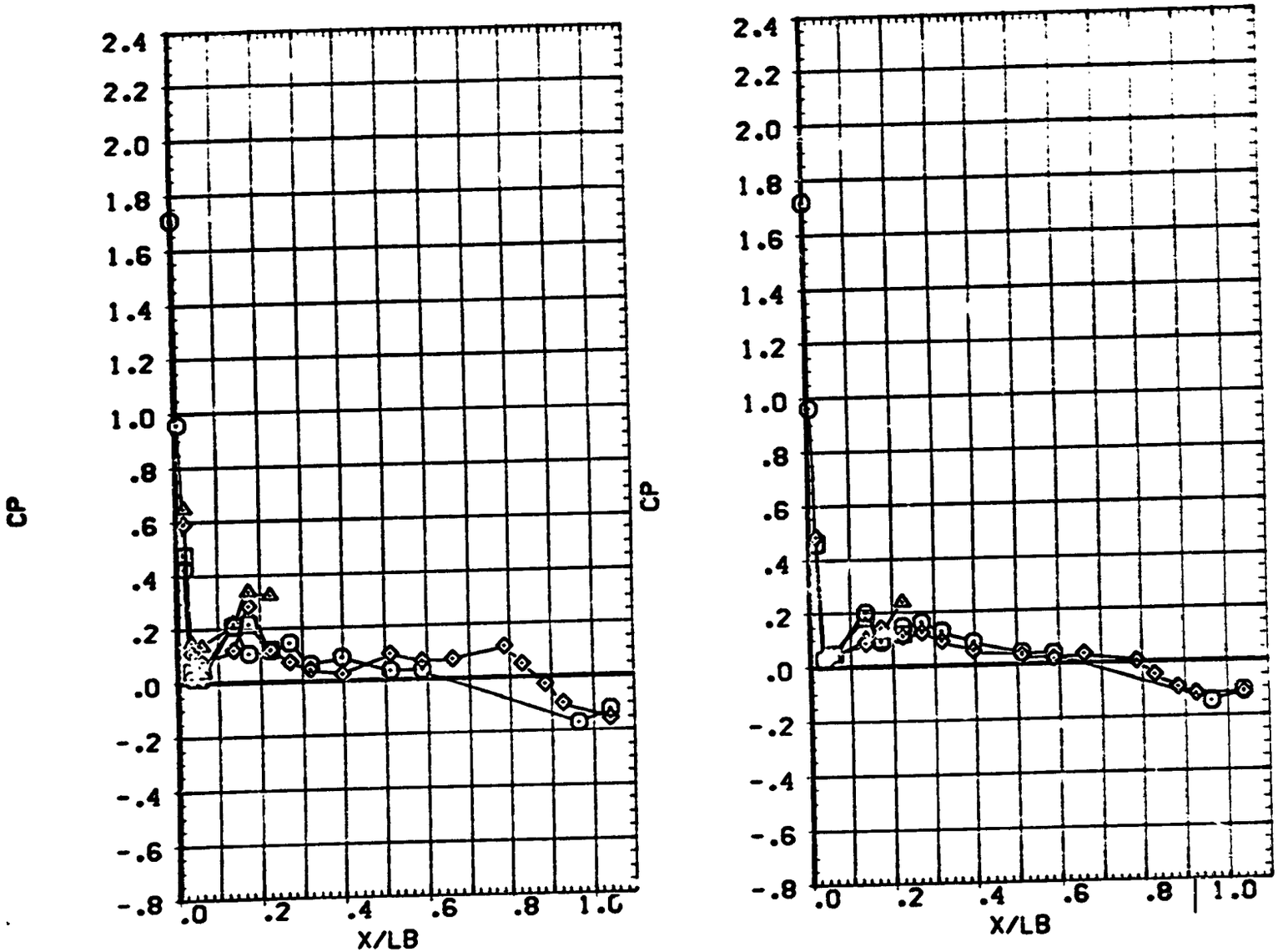
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB02)

SYMBOL	PHI	BETA	MACH
	.000	-4.170	2.498
	20.0000	2.180	
◇	40.0000		
△	55.0000		

PARAMETRIC VALUES

ALPHAT	-8.000	SPEVC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



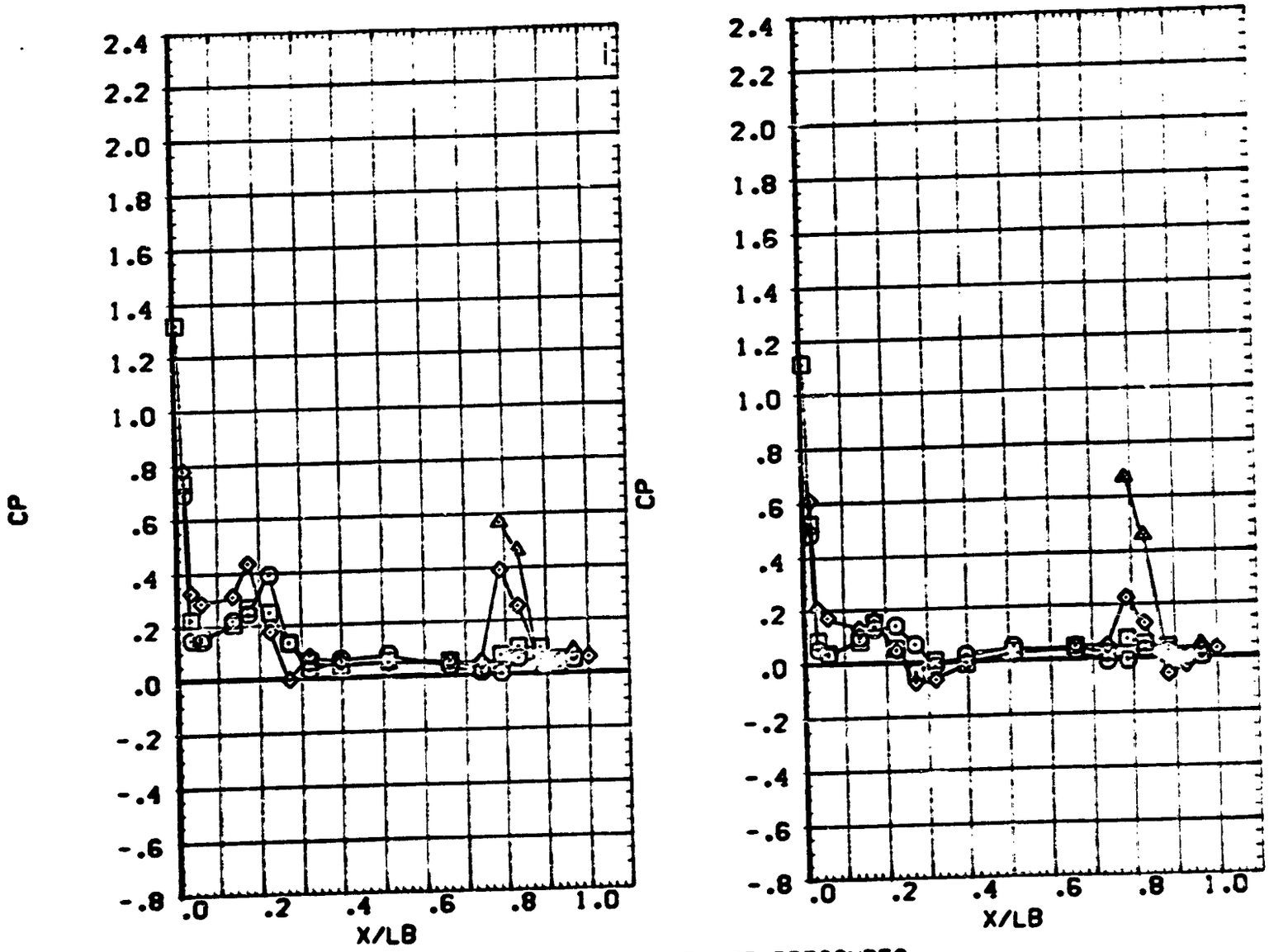
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 02A - S3 - T9 ORBITER FUSELAGE (RBN302)

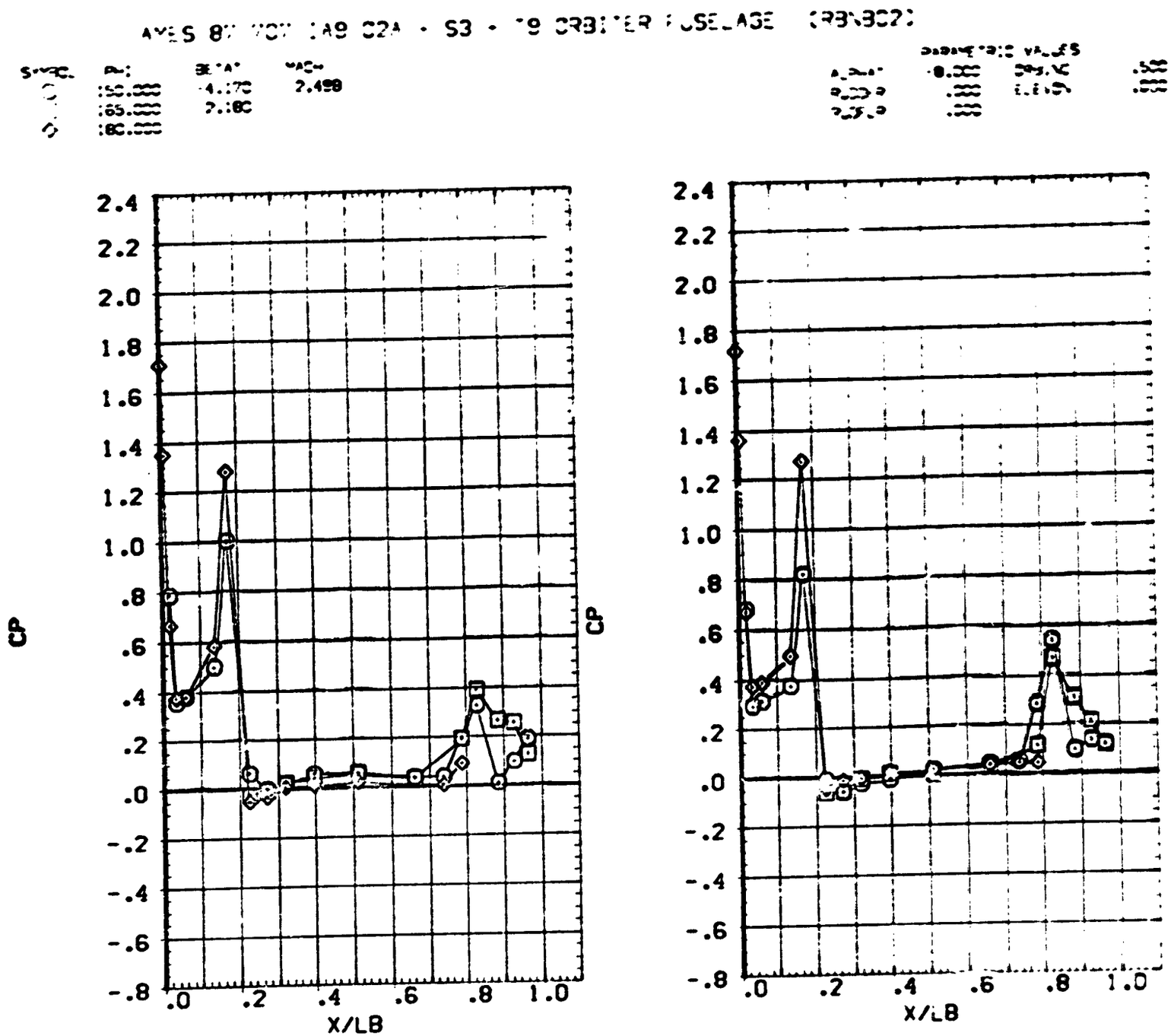
SYMBOL	PHI	BETAT	MACH
○	70.000	-4.170	2.498
□	90.000	2.180	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

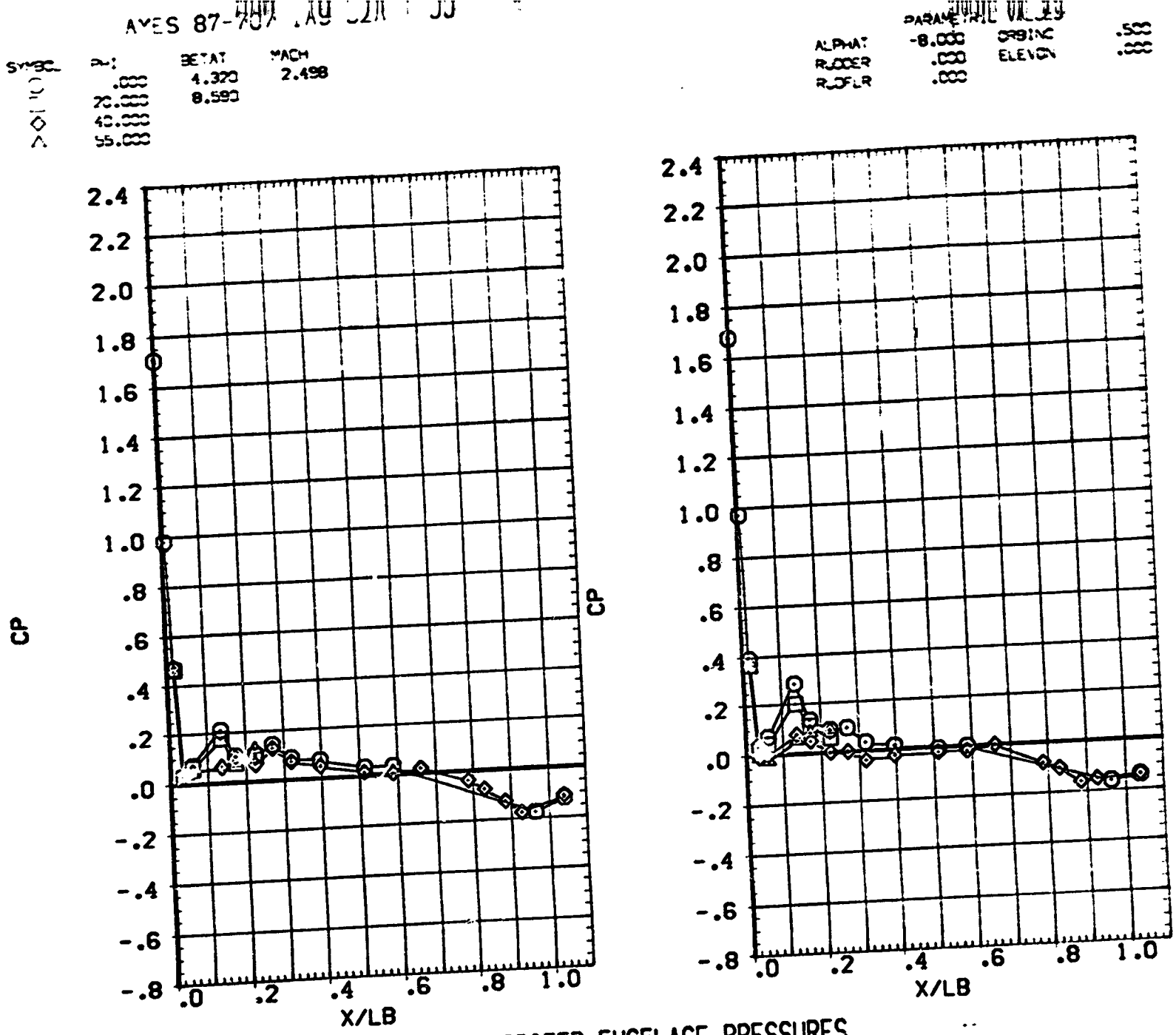
ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



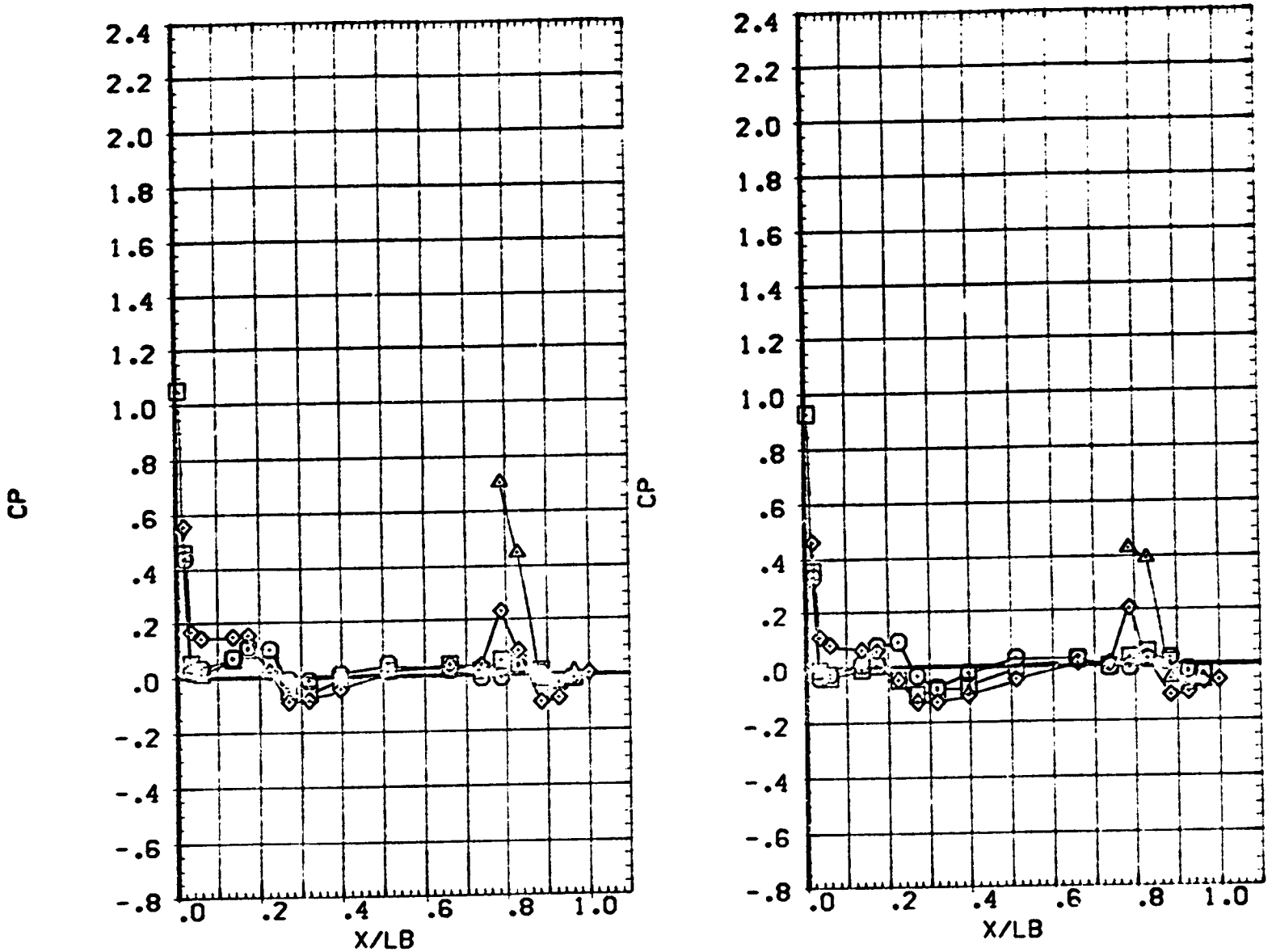
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RB\BC2)

SYMBOL	PHI	BETAT	MACH
□	70.000	4.320	2.498
○	90.000	8.590	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



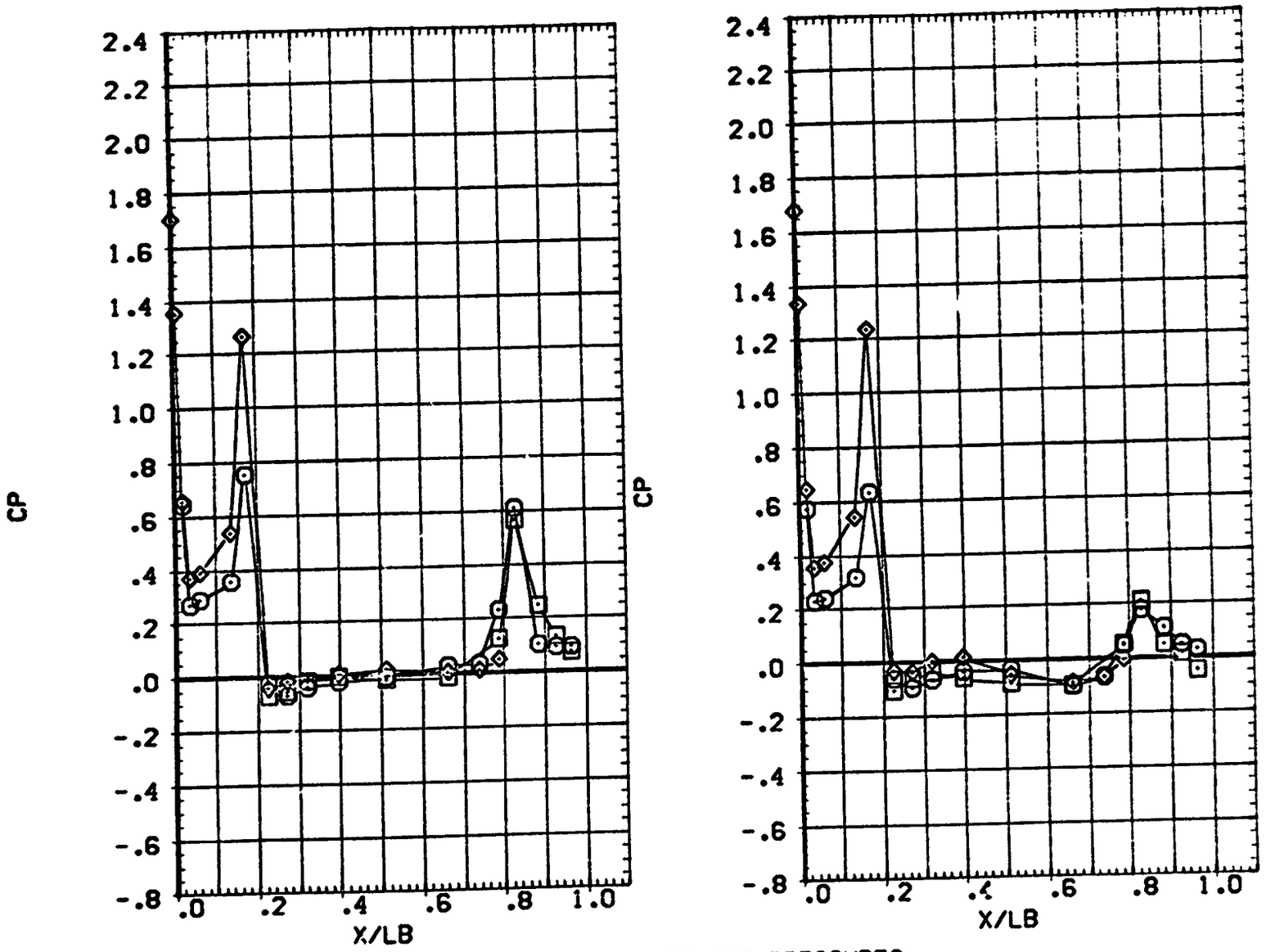
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB02)

SYMBOL	PHI	BETAT	MACH
◇	50.000	4.320	2.498
◇	65.000	8.590	
◇	80.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



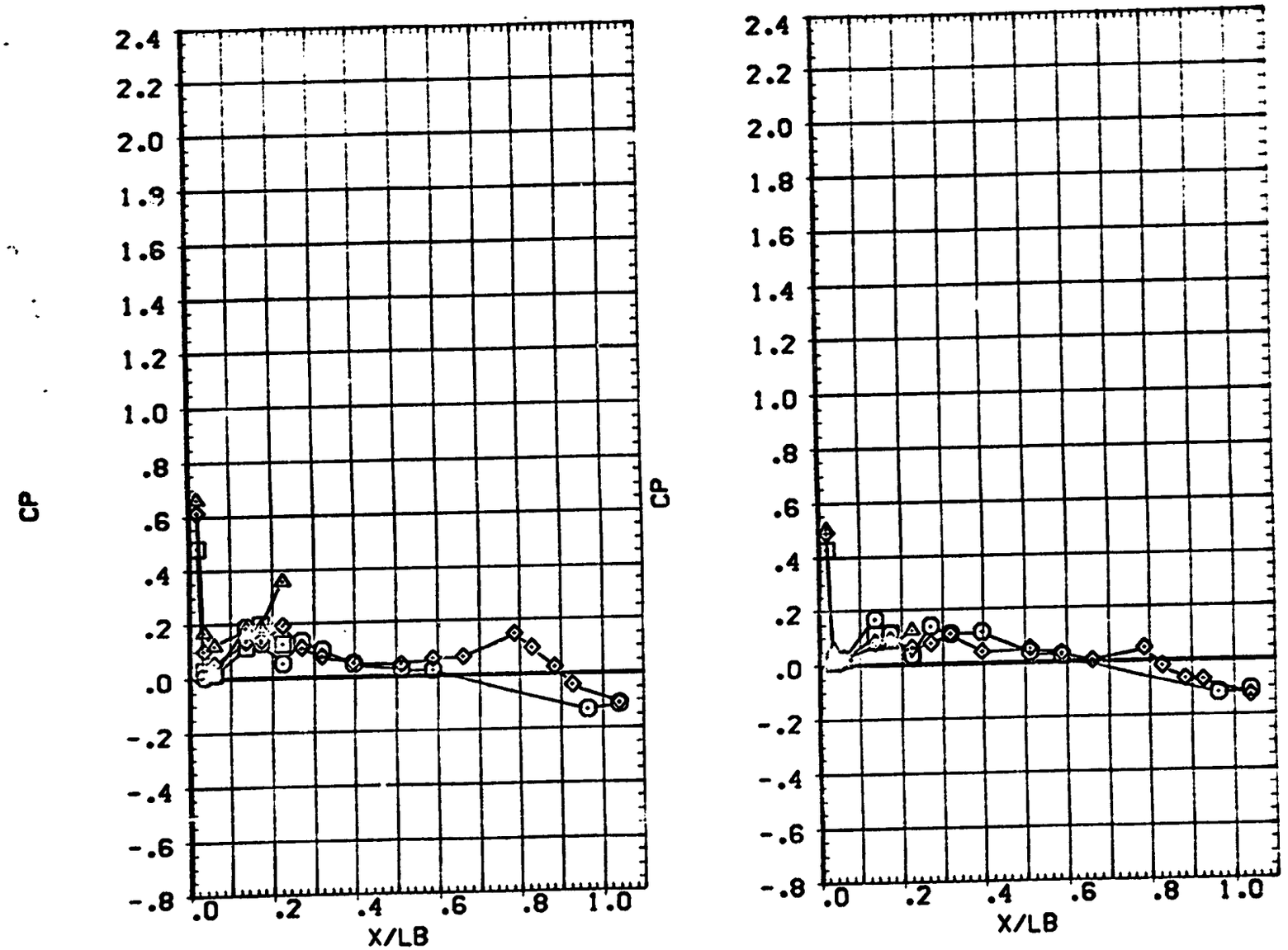
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB02)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.250	2.999
◇	20.000	2.230	
□	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



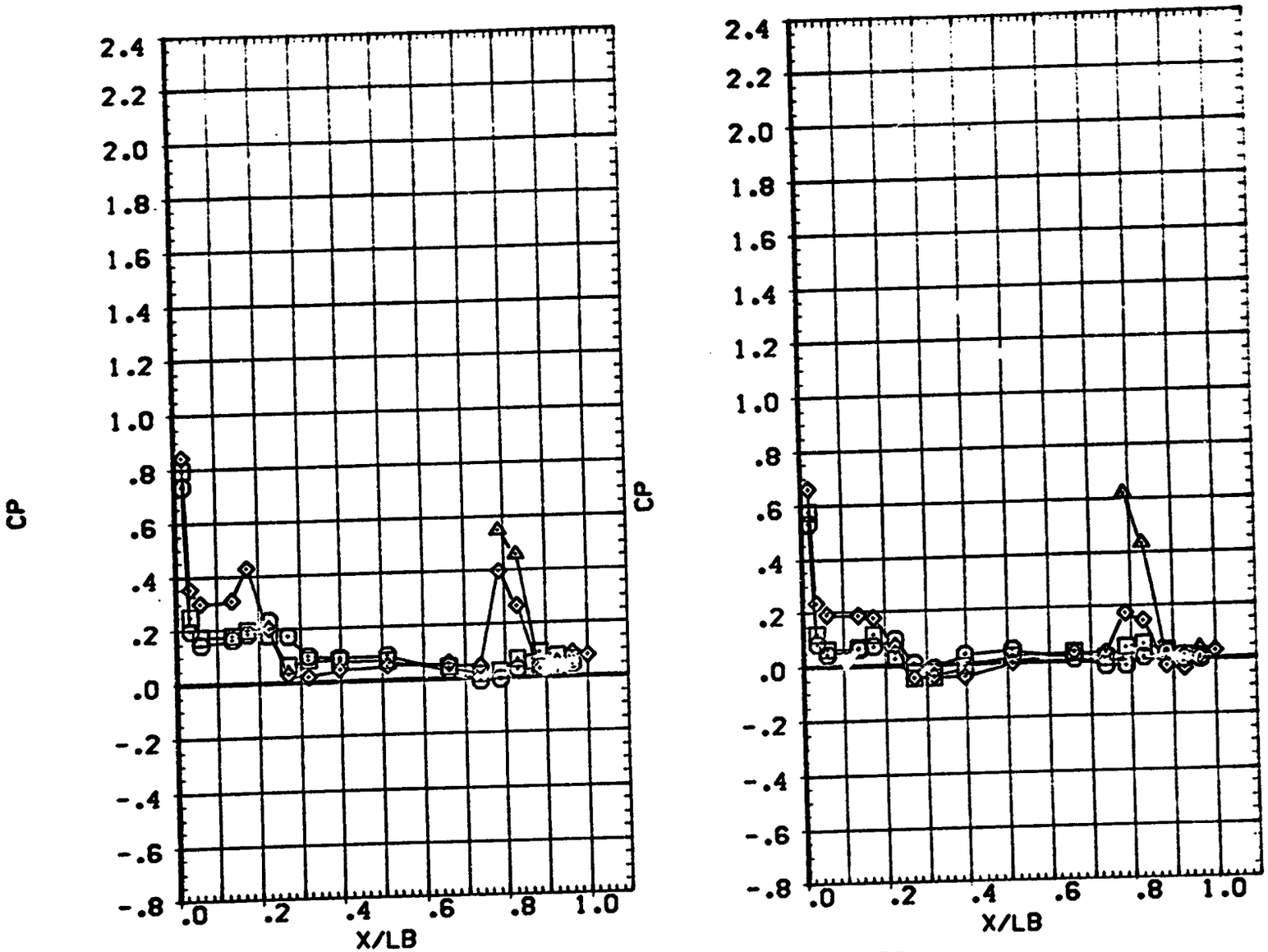
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 C7A + S3 + T9 ORBITER FUSELAGE (RBV302)

SYMBOL	PHI	BETAT	MACH
○	70.0000	-4.250	2.999
◇	90.0000	2.230	
△	120.0000		
	135.0000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROFLR	.000		



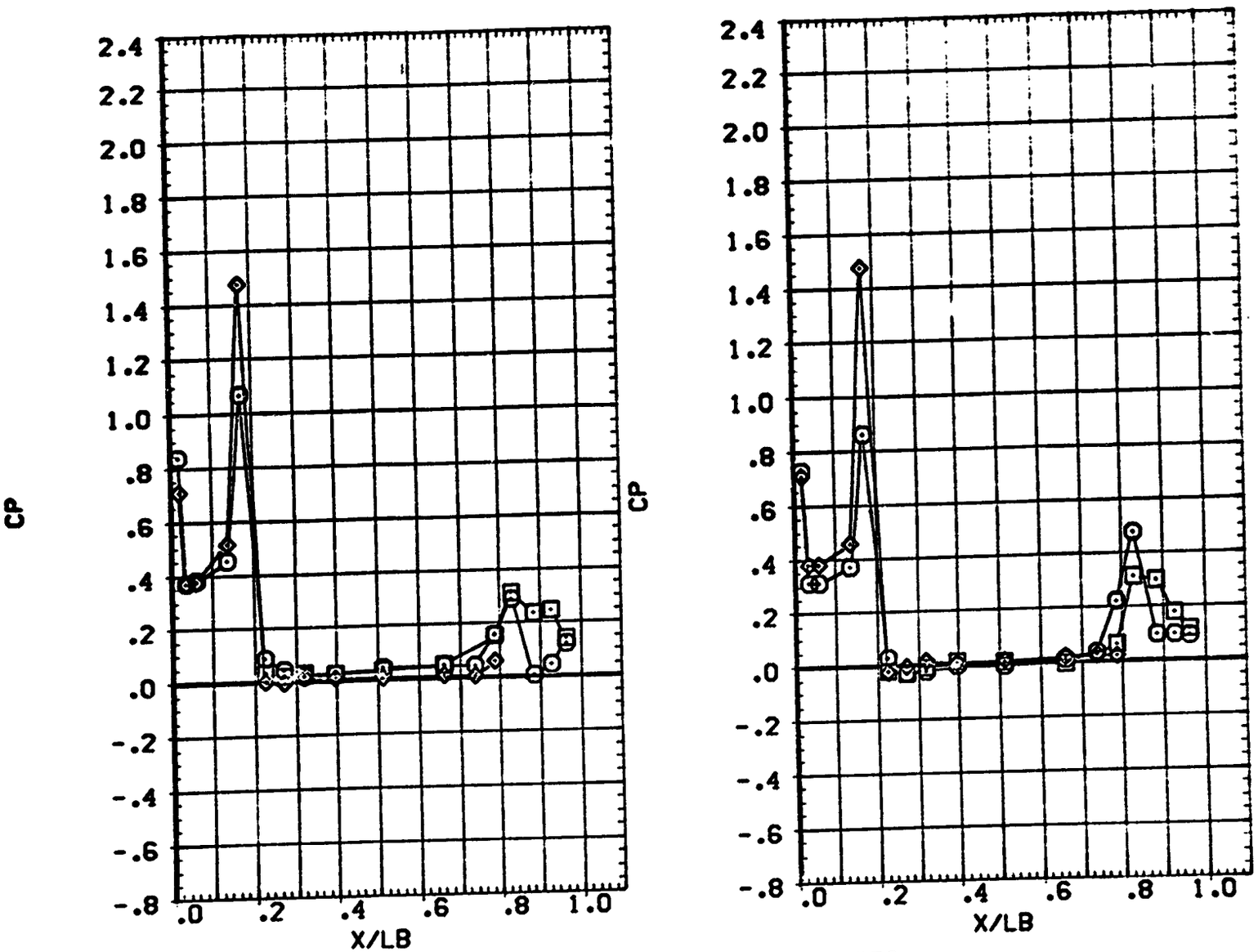
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNBC2)

SYMBOL	PHI	BETAT	MACH
○	50.000	-4.250	2.999
□	65.000	2.730	
◇	80.000		

PARAMETRIC VALUES

ALPHA	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



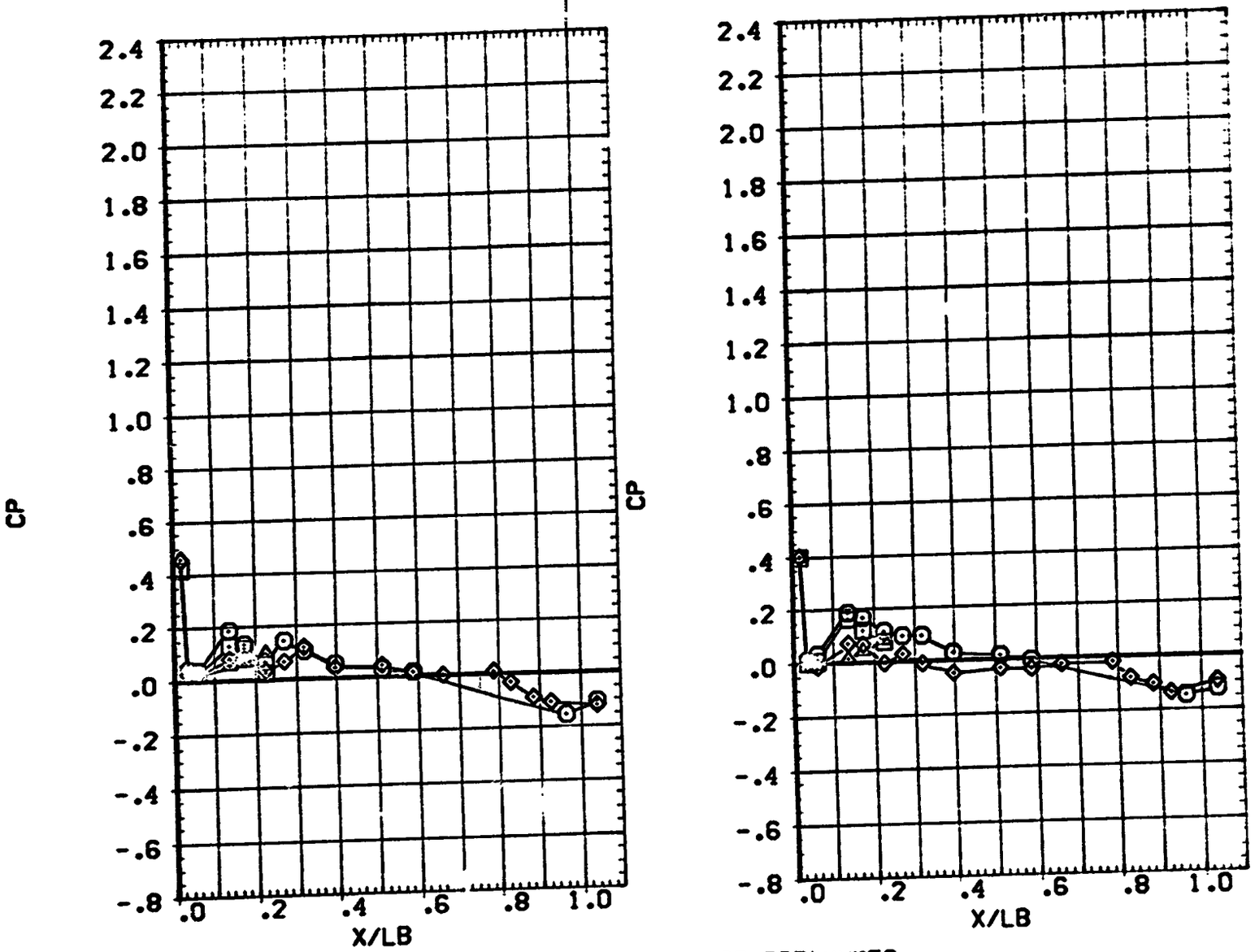
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA8 C2A + S3 + T9 ORBITER FUSELAGE (RBVBC2)

SYMBOL	PHI	BETA	MACH
○	.000	4.400	2.999
◇	20.000	8.750	
△	40.000		
	55.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



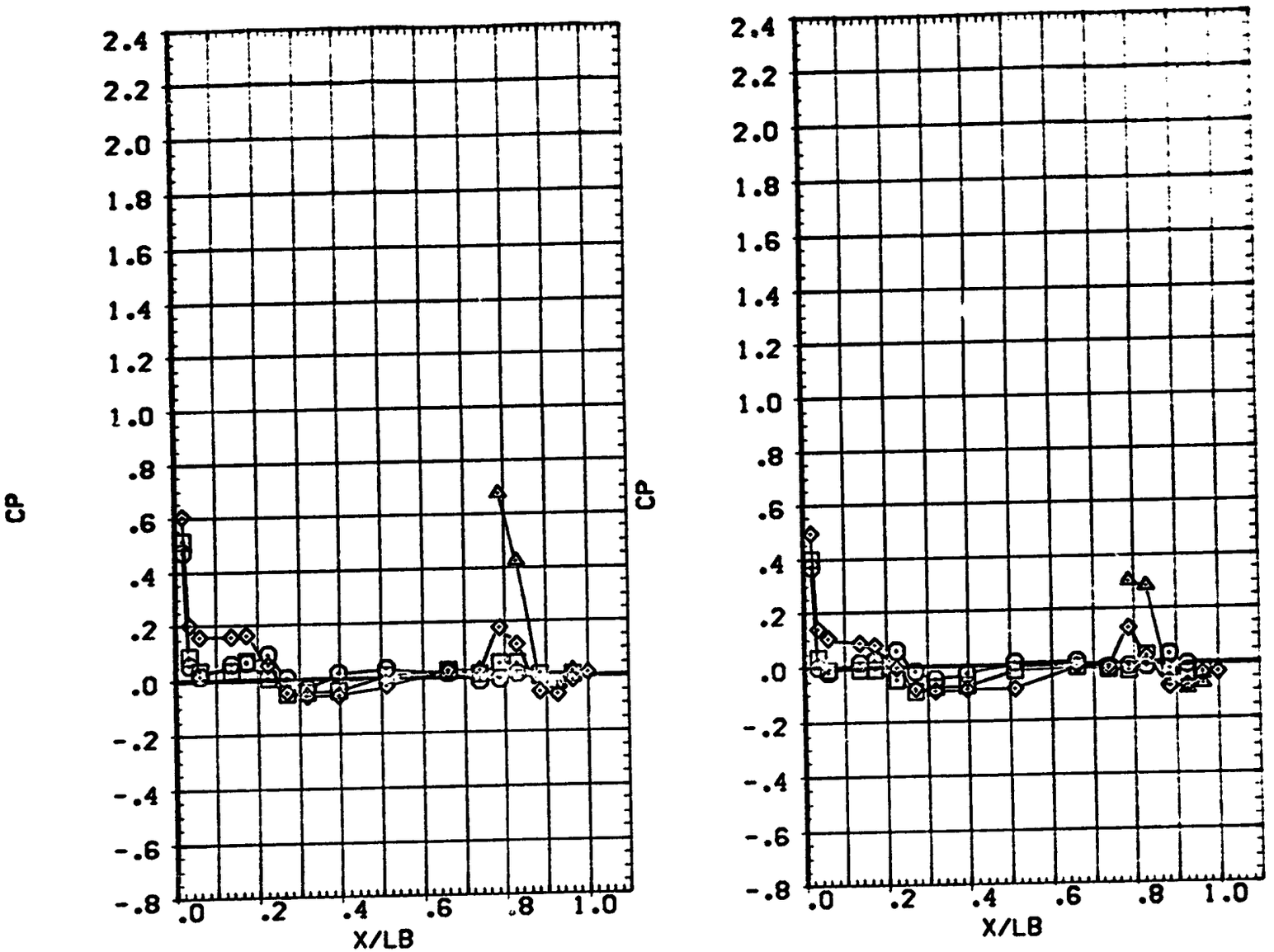
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB02)

SYMBOL	PHI	BETAT	MACH
○	70.000	4.400	2.999
□	90.000	8.750	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



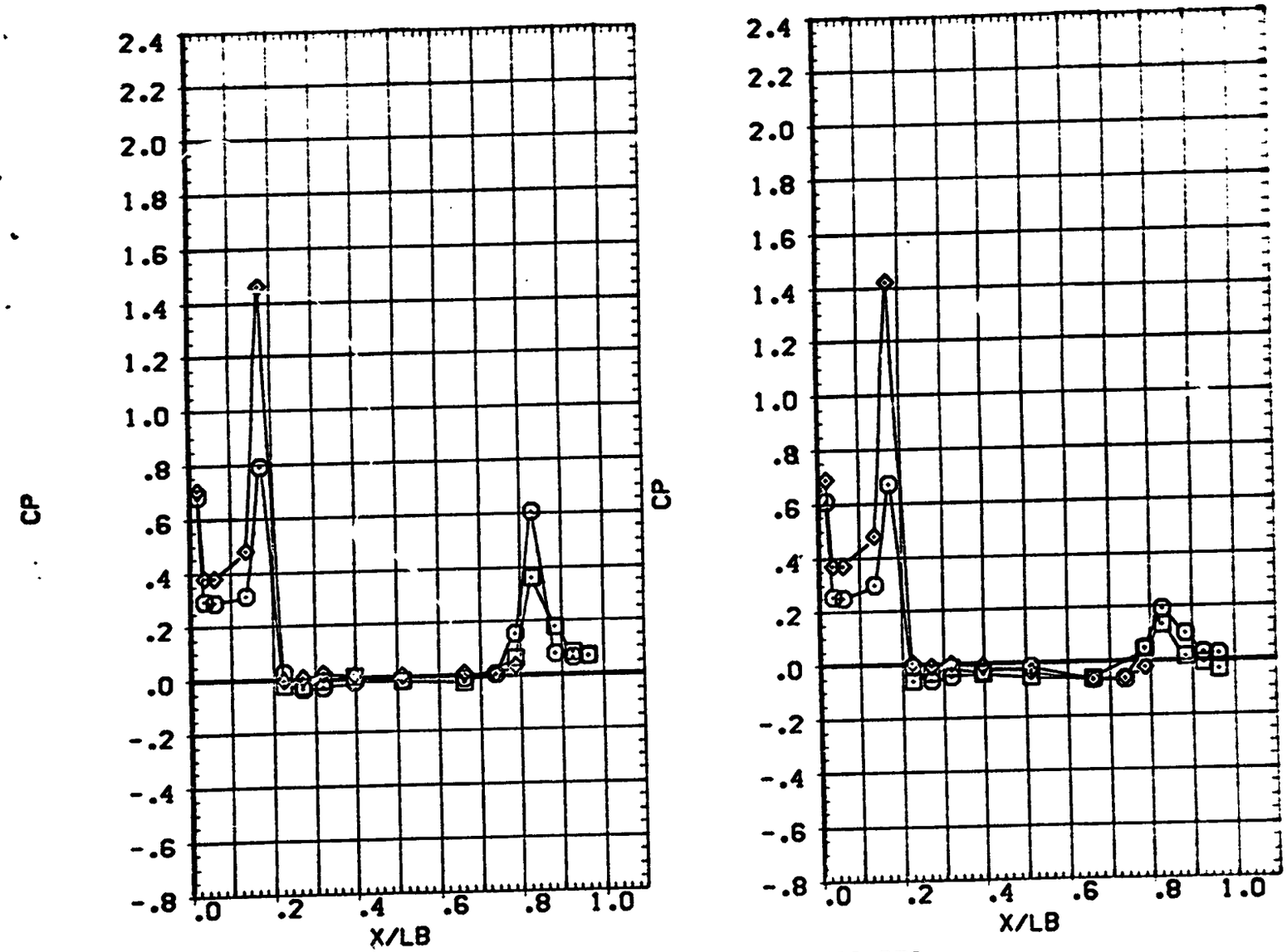
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBN302)

SYMBOL	PHI	BETAT	MACH
○	:50.0000	4.400	2.999
◇	:65.0000	8.750	
	:80.0000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBIT	.000
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



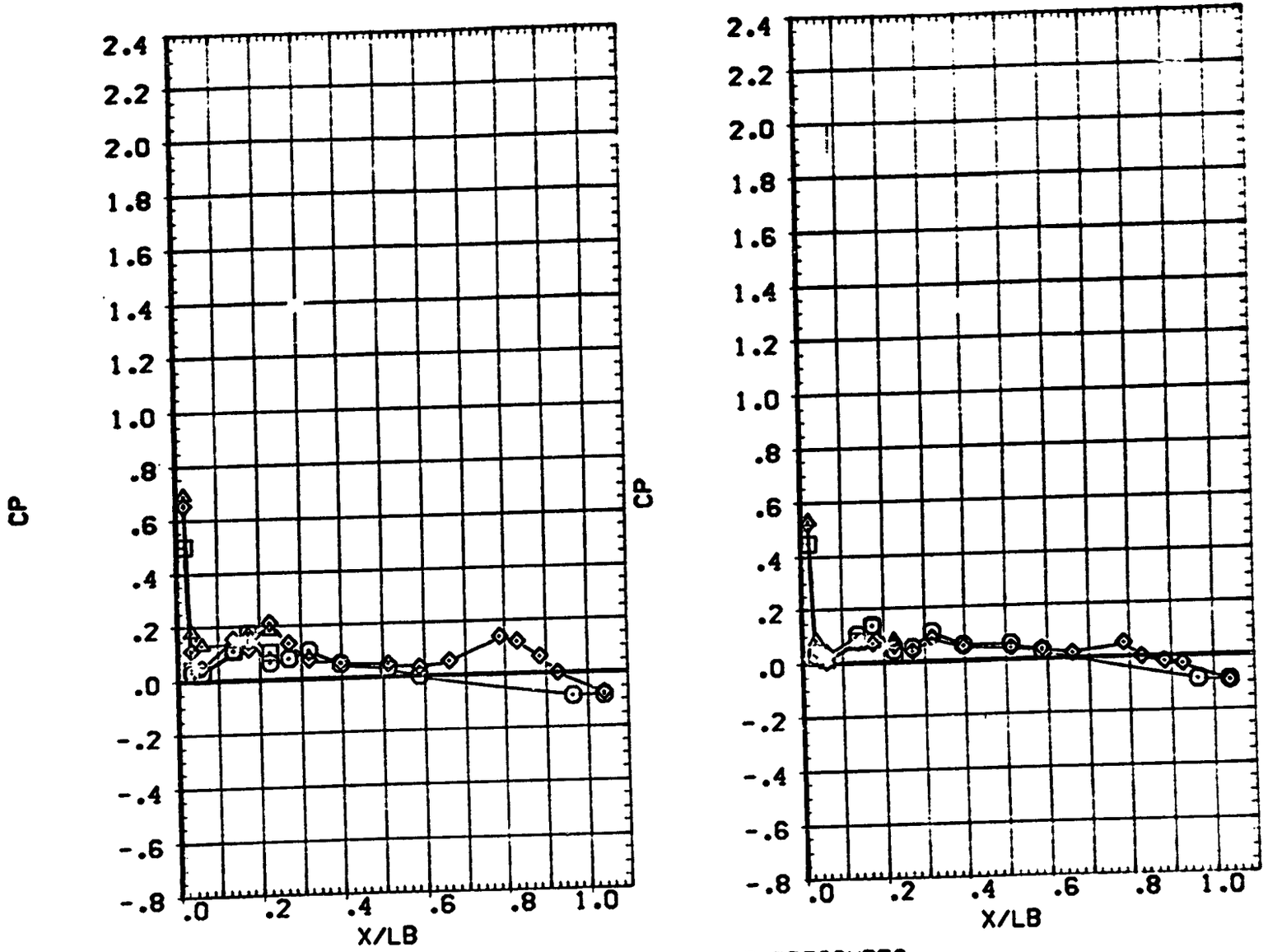
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 02A - S3 - T9 ORBITER FUSELAGE (RB\302)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.330	3.502
□	20.000	2.760	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



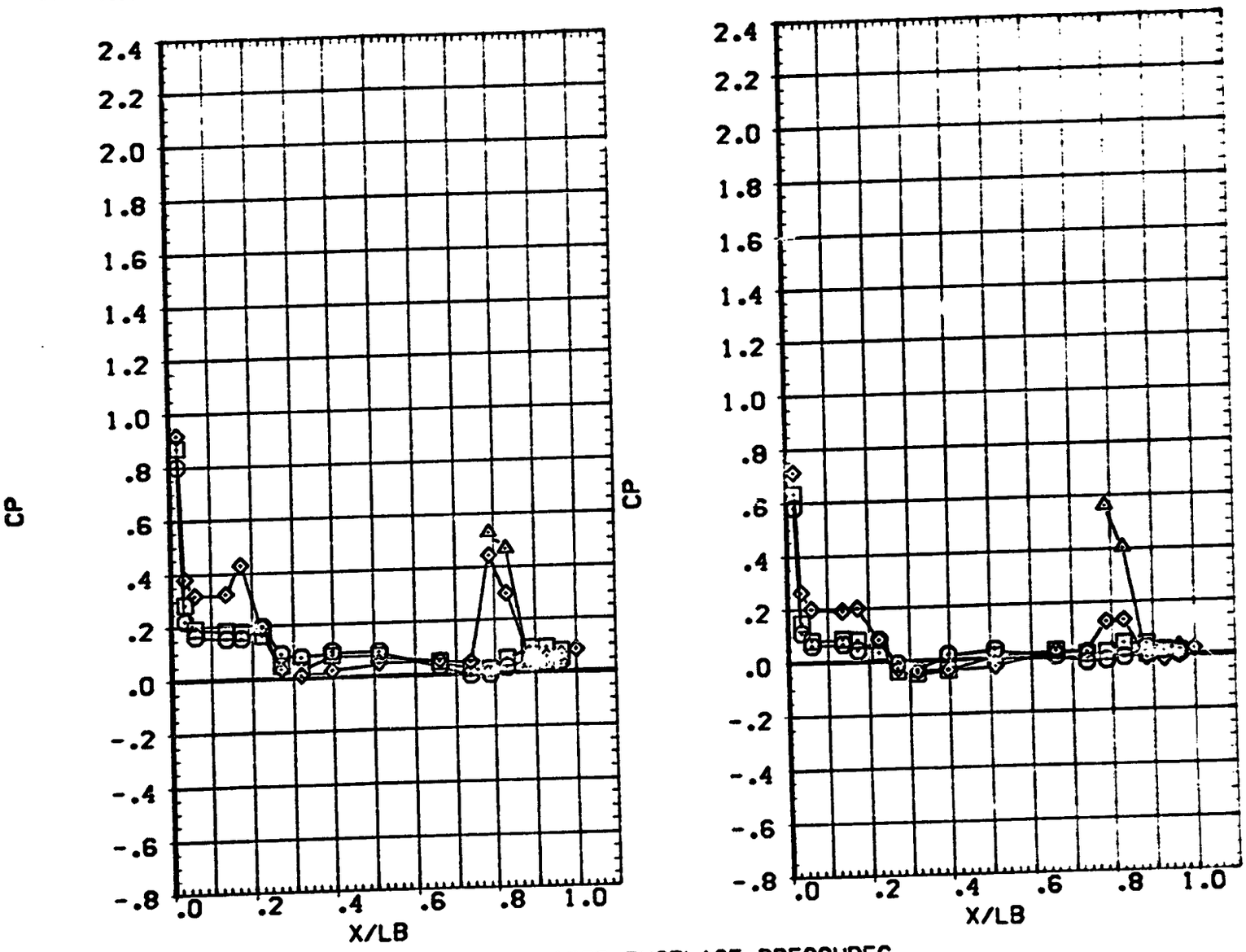
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA8 C2A + S3 + T8 ORBITER FUSELAGE (RBN302)

SYMBOL	PHI	BETAT	MACH
○	70.000	-4.330	3.502
□	90.000	2.260	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



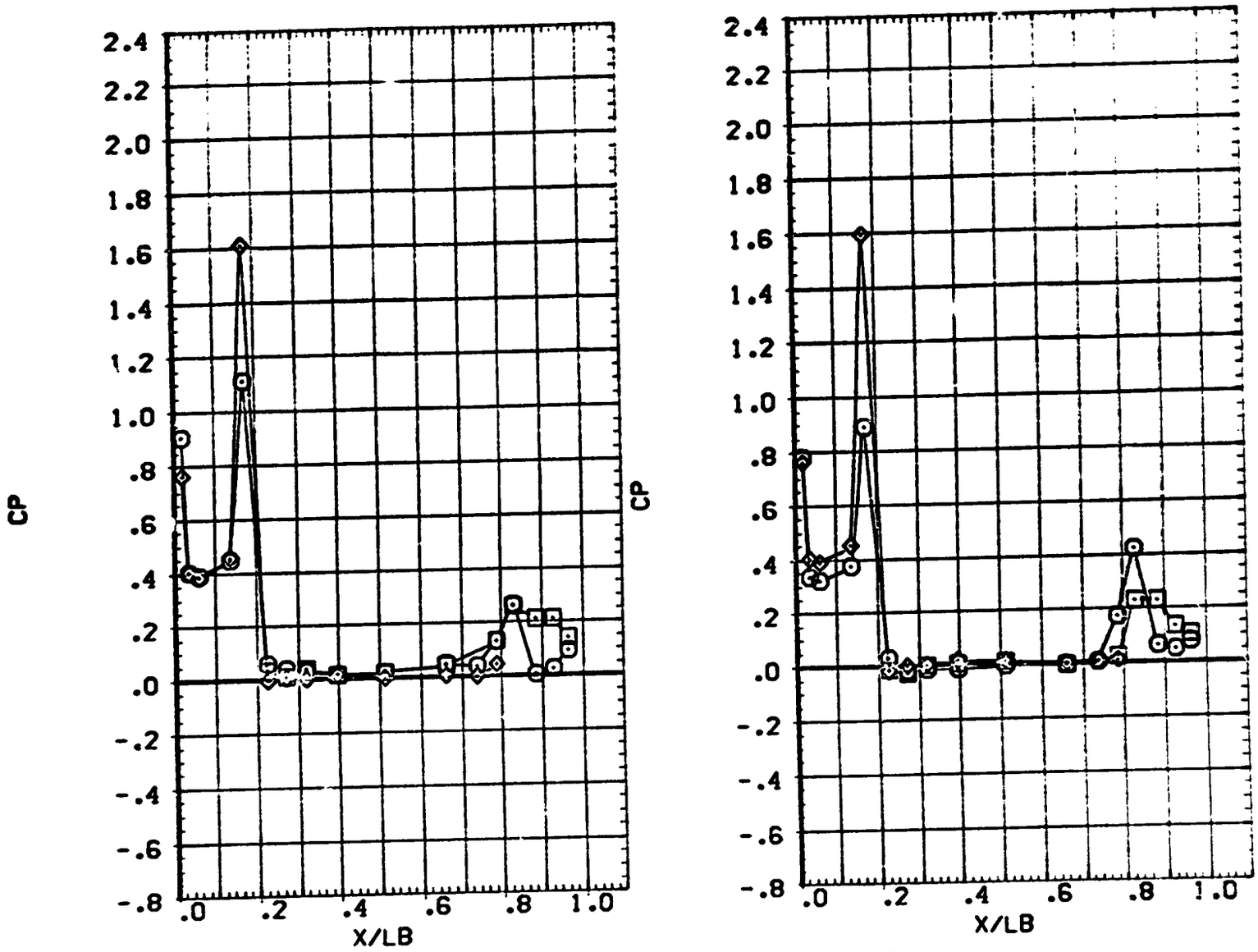
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB02)

SYMBOL	PHI	BETAT	MACH
○	50.000	-4.330	3.502
□	65.000	2.260	
◇	80.000		

PARAMETRIC VALUES

ALPHAT	-8.000	SPOILC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



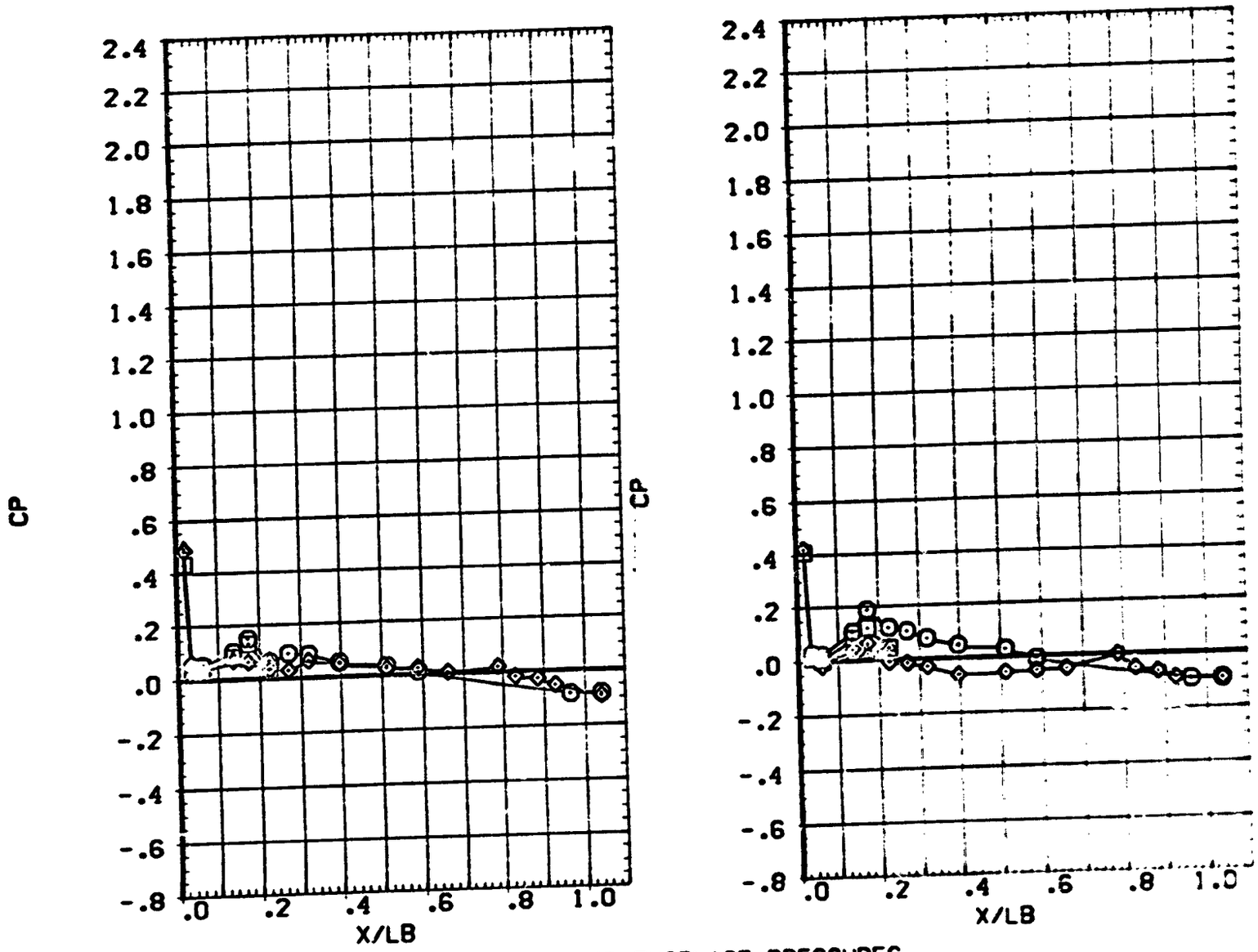
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBN302)

SYMBOL	PHI	BETAT	MACH
○	.000	4.480	3.502
□	20.000	8.910	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHA	-8.000	SPBINC	.500
RUDDER	.000	ELEVON	.000
ROTLR	.000		



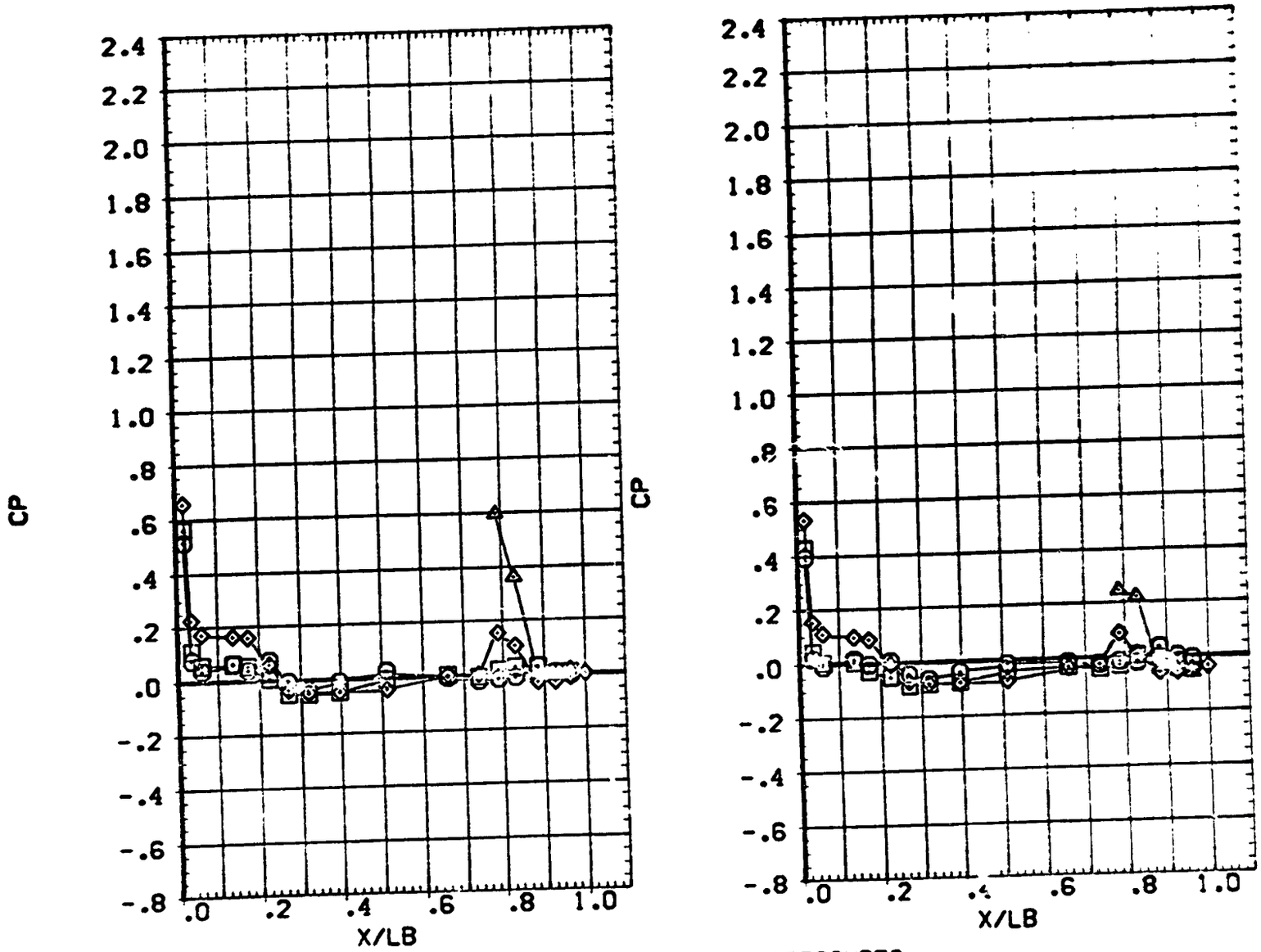
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RB\B02)

SYMBOL	PHI	BETA	MACH
○	70.0000	4.480	3.502
◇	90.0000	8.910	
△	120.0000		
△	135.0000		

PARAMETRIC VALUES

ALPHA	-8.000	BODY	.000
RUDDER	.000	ELEVON	.000
ROLLER	.000		



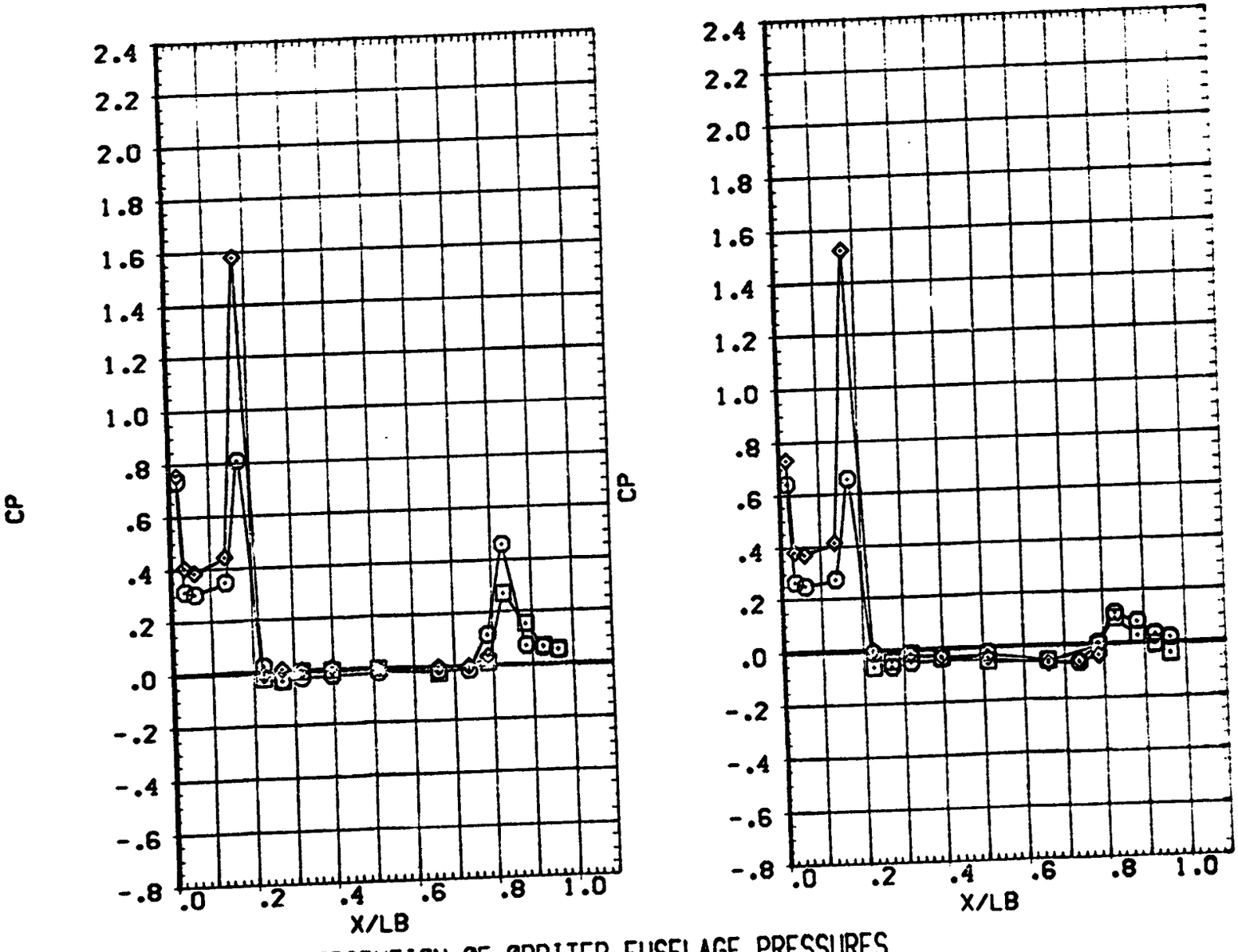
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 32A + S3 - [illegible]

SYMBOL	PHI	BETAT	MACH
○	150.000	4.480	3.502
□	165.000	8.910	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROLLR	.000		



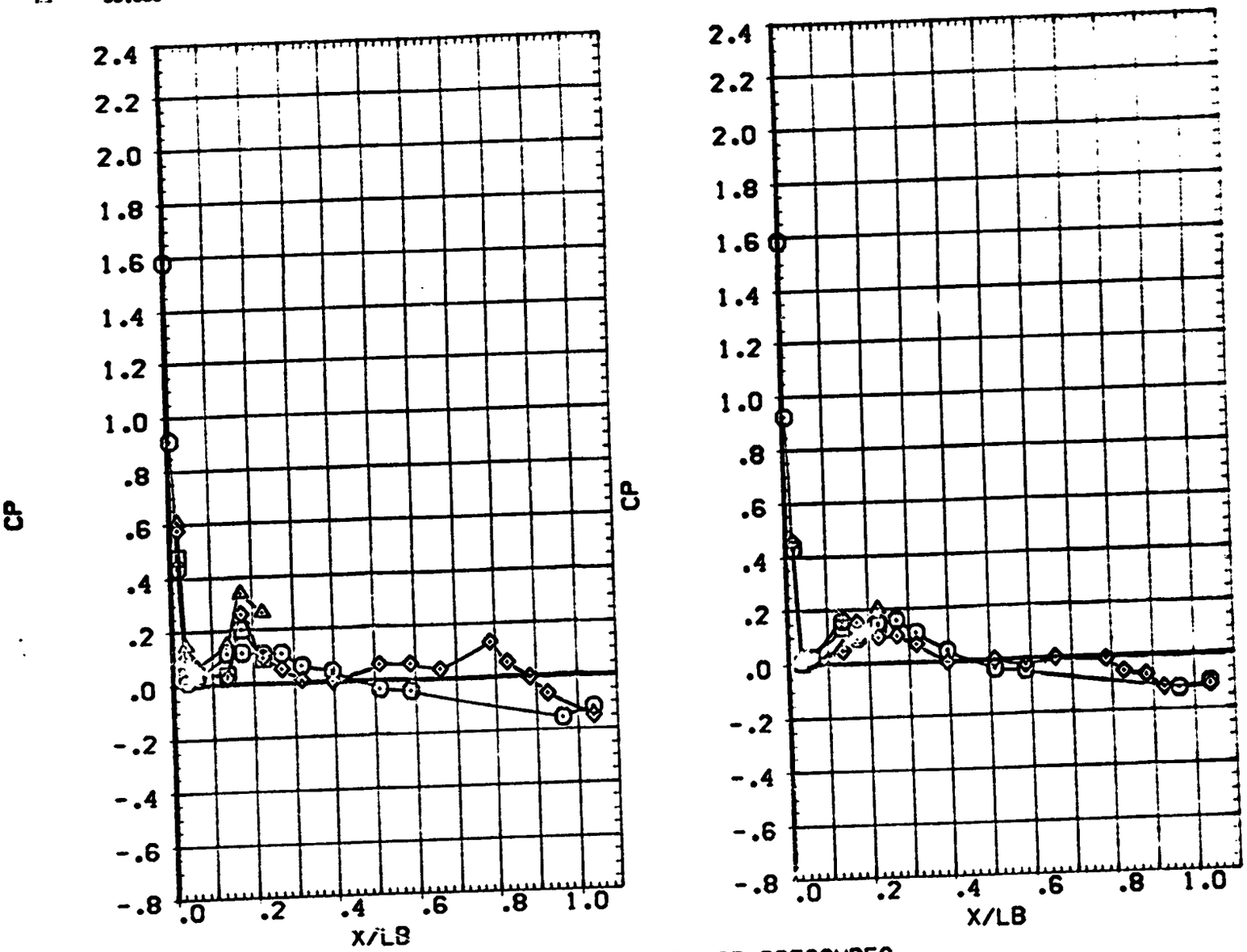
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AYES 87-707 :A9 C2A + S3 + '9 ORBITER FUSELAGE (RBNB04)

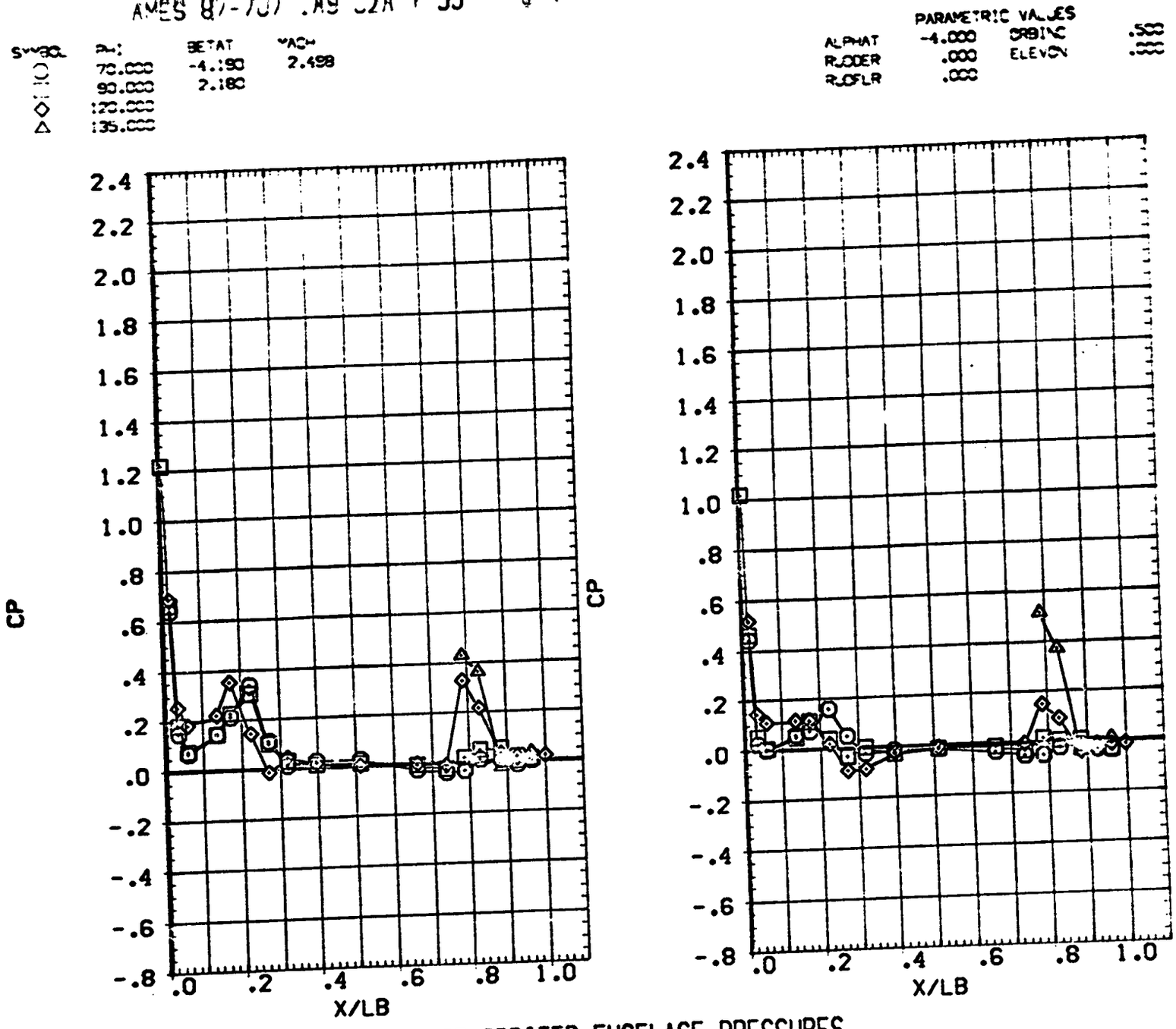
SYMBOL	PHI	BETAT	MACH
○	.000	-4.190	2.498
◇	20.000	2.180	
△	40.000		
	55.000		

PARAMETRIC VALUES

ALPHAT	-4.000	SPEVC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



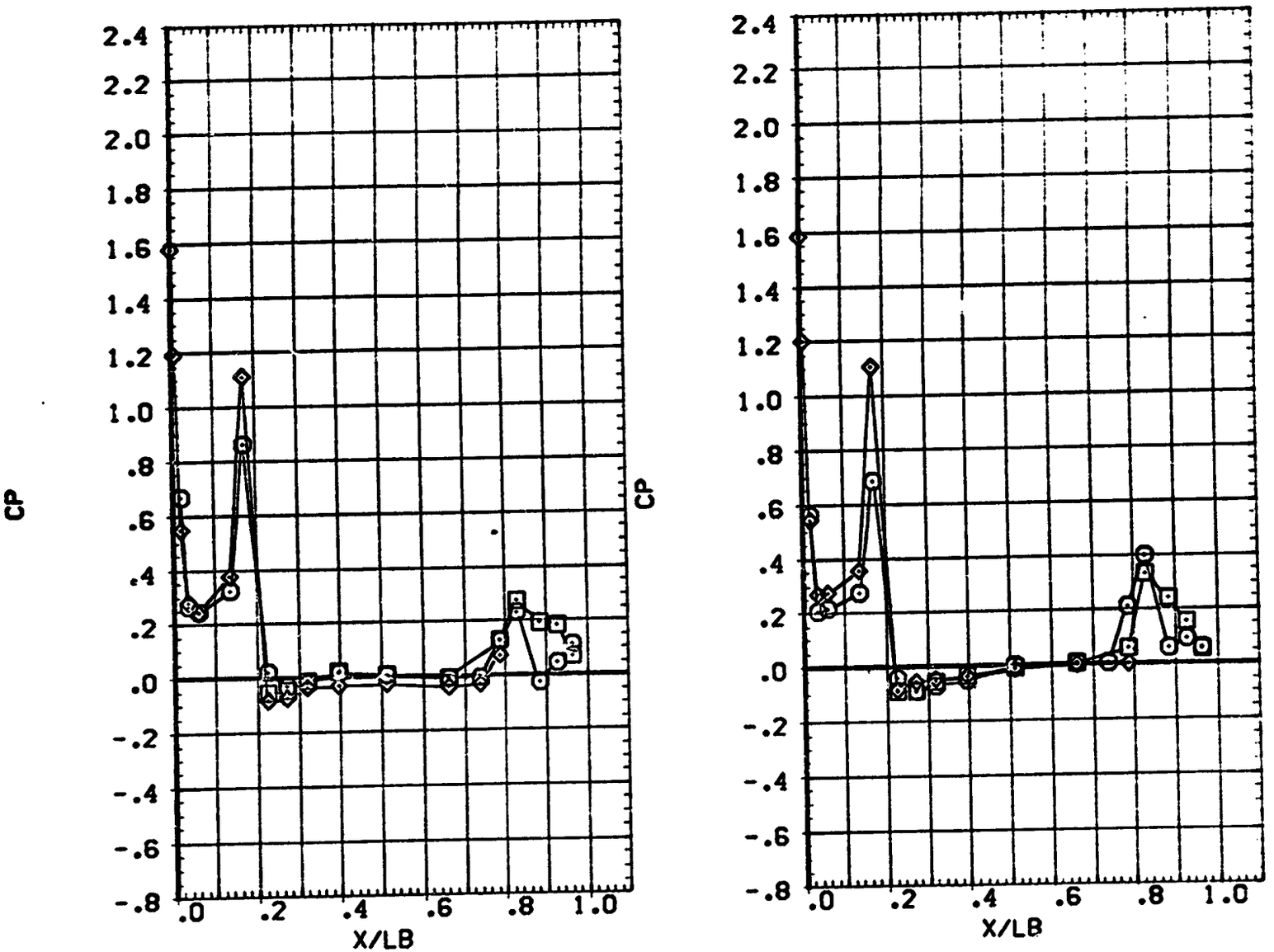
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 C2A - S3 - T9 ORBITER FUSELAGE (RBNBC4)

SYMBOL	PHI	BETAT	MACH
○	150.000	-4.190	2.498
□	165.000	2.180	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

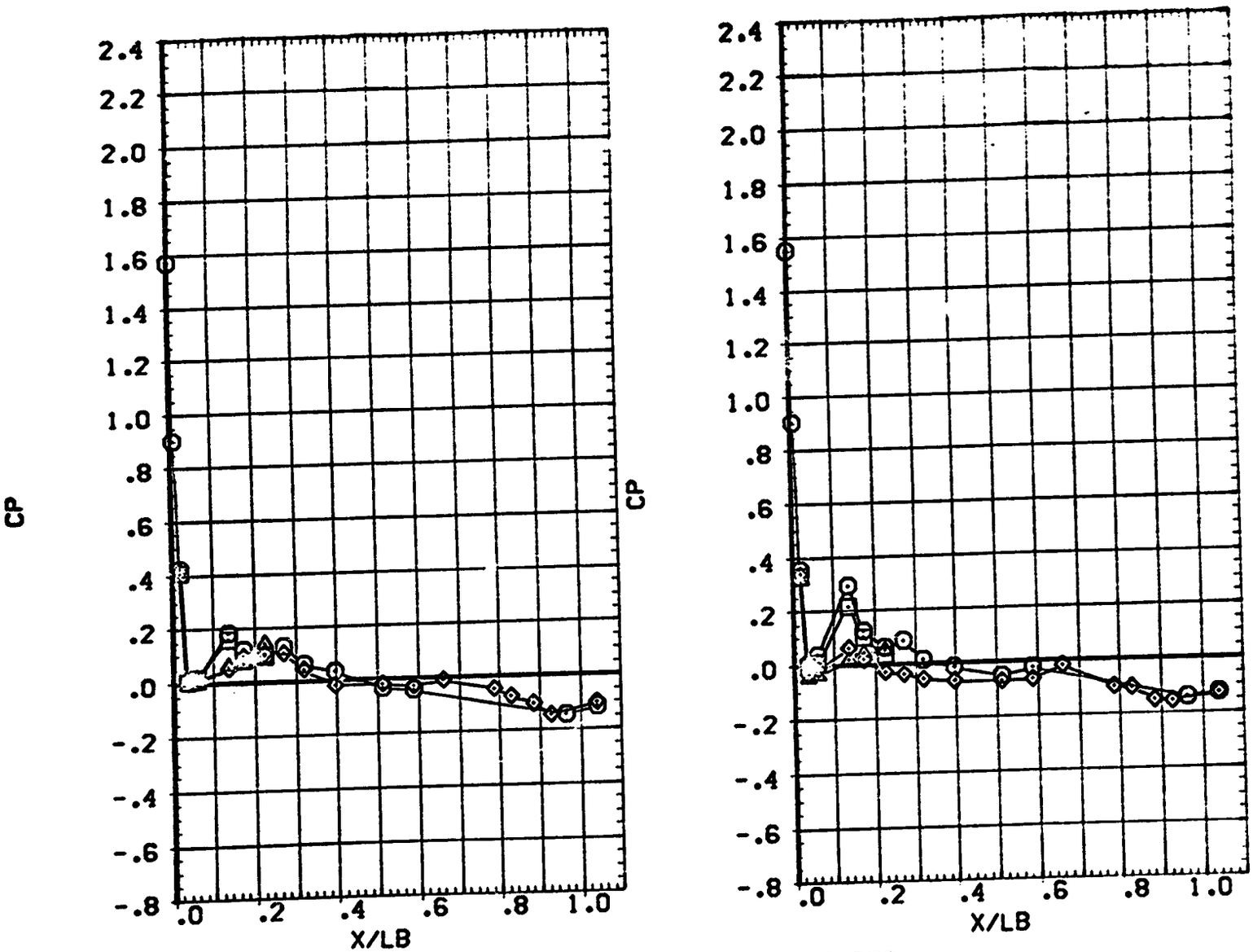


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL	PHI	BETAT	MACH
○	.000	4.300	2.498
□	20.000	8.550	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



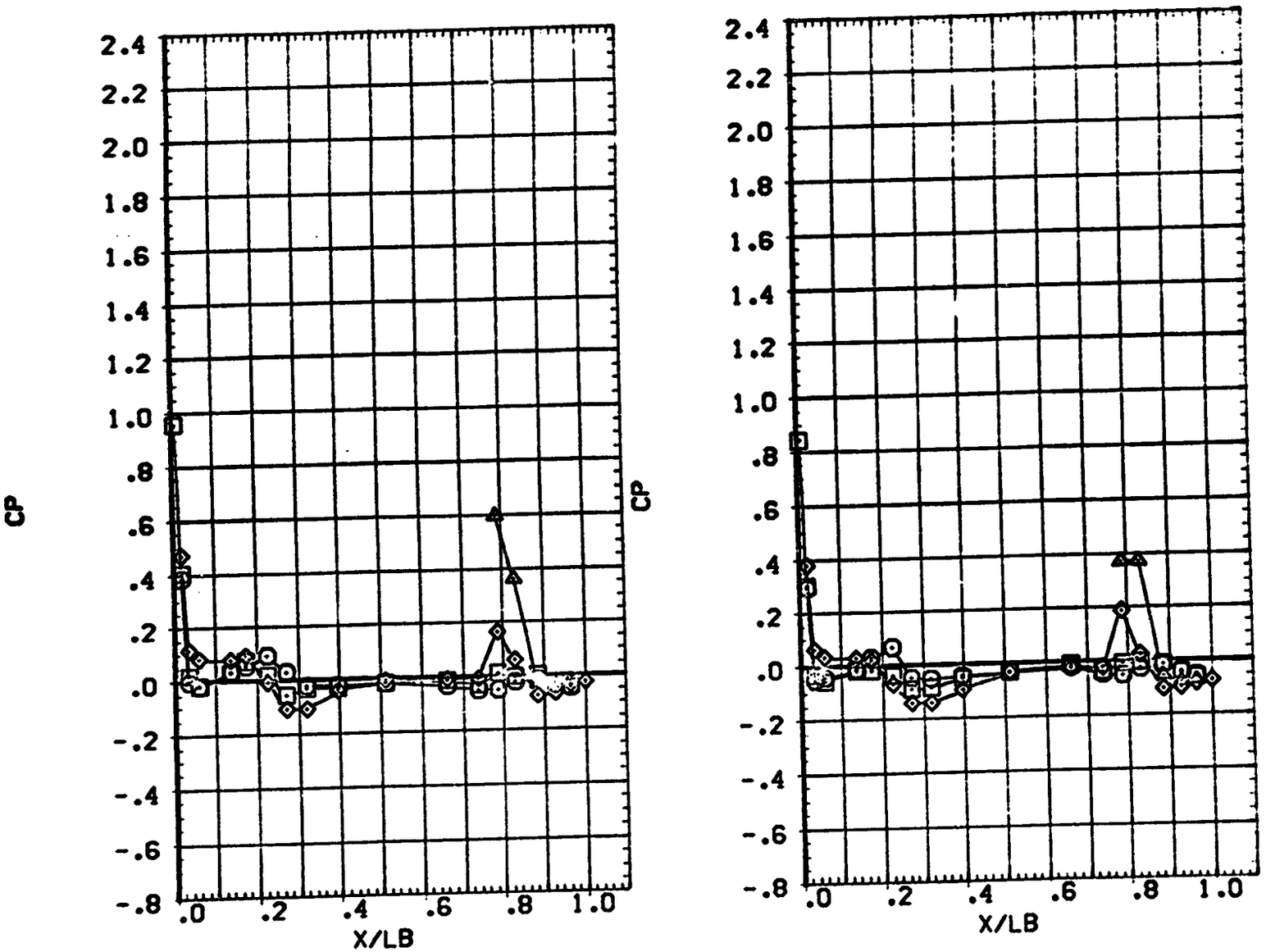
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBVBC4)

SYMBOL	PHI	BETAT	MACH
○	70.000	4.300	2.498
□	90.000	8.550	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



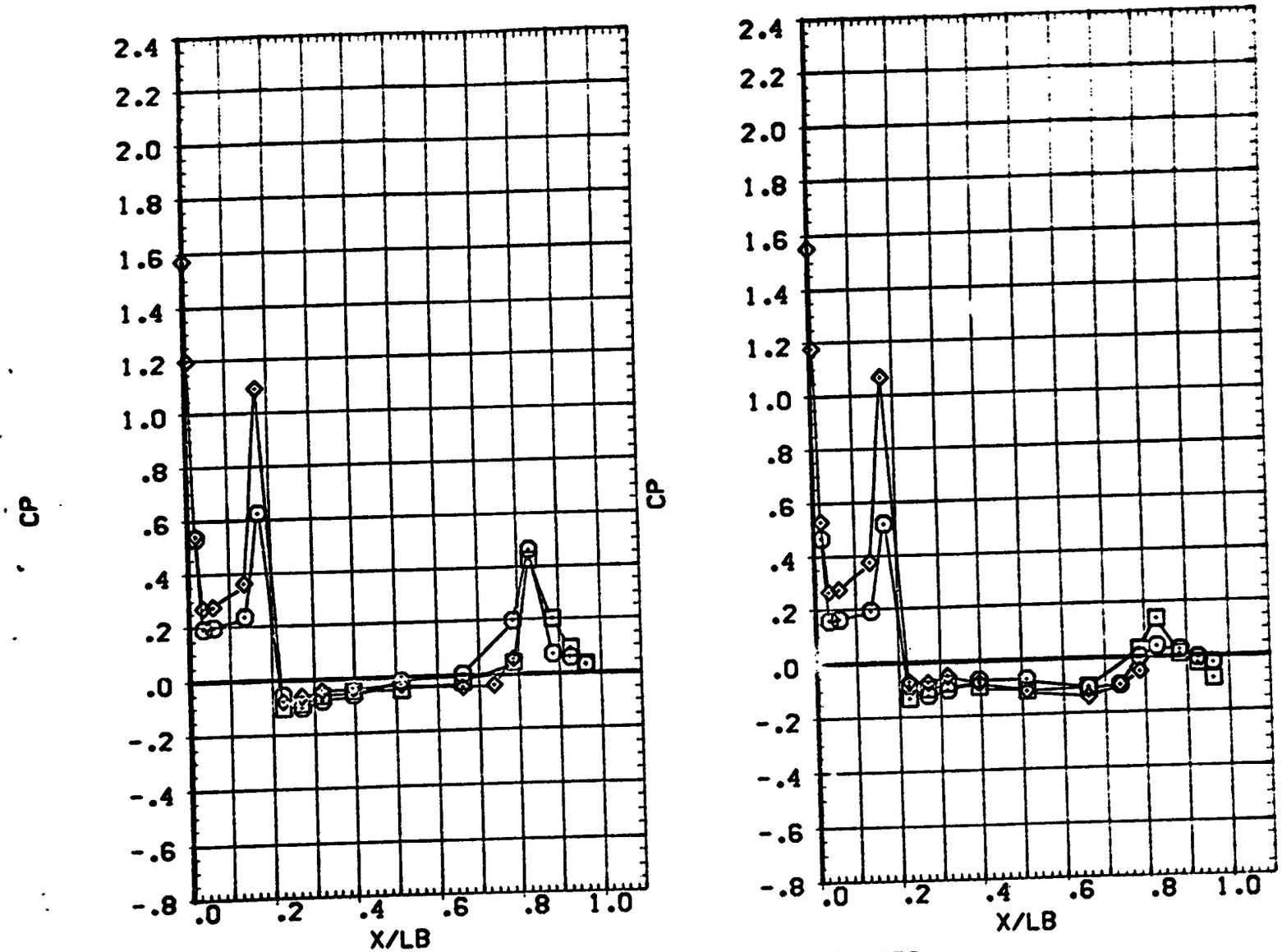
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 C2A + 53 + .9 ORBITER FUSELAGE

SYMBOL	PHI	BETAT	MACH
○	150.000	4.300	2.498
□	165.000	8.550	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



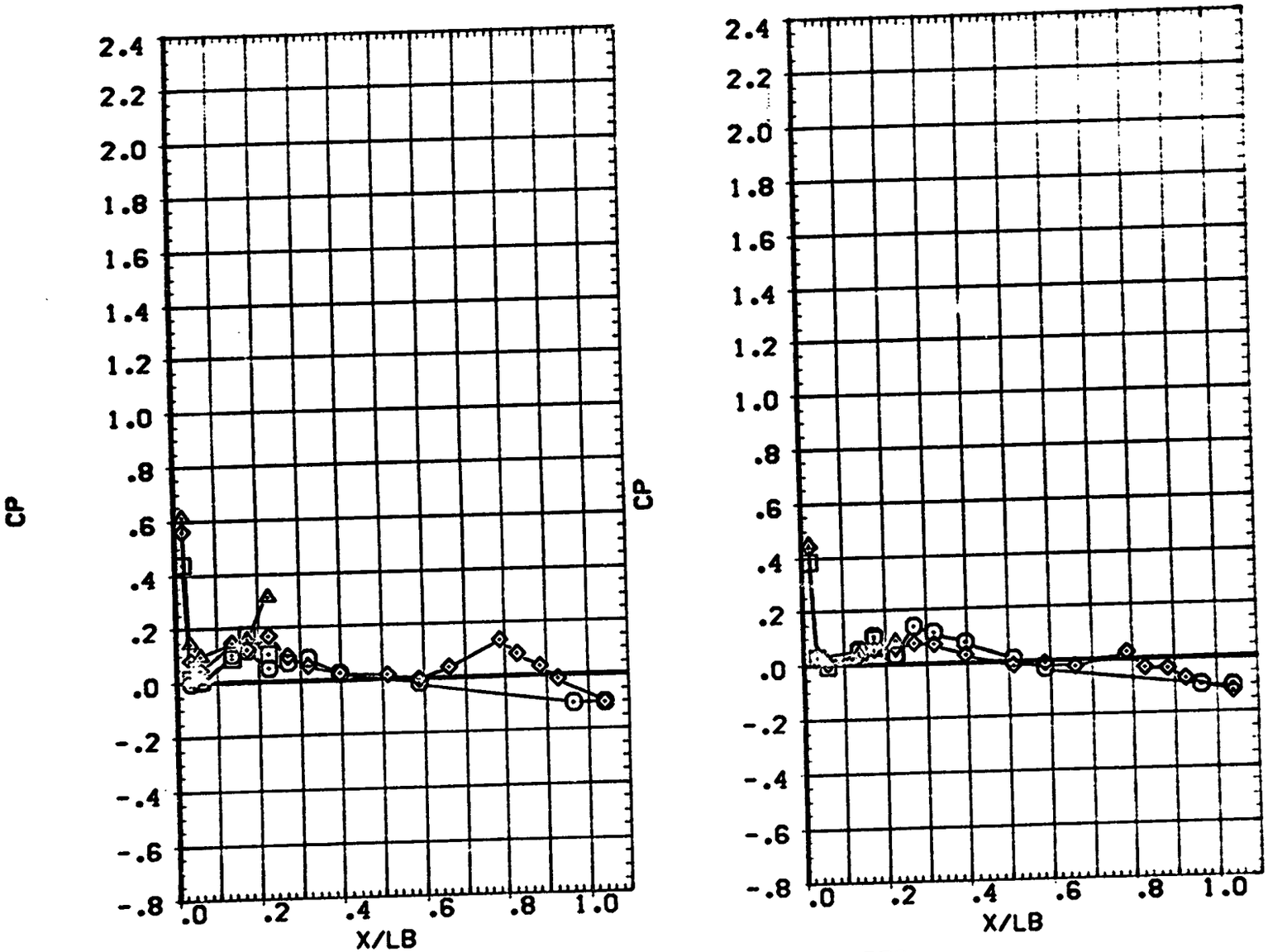
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBNB04)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.260	2.999
□	20.000	2.210	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBVC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



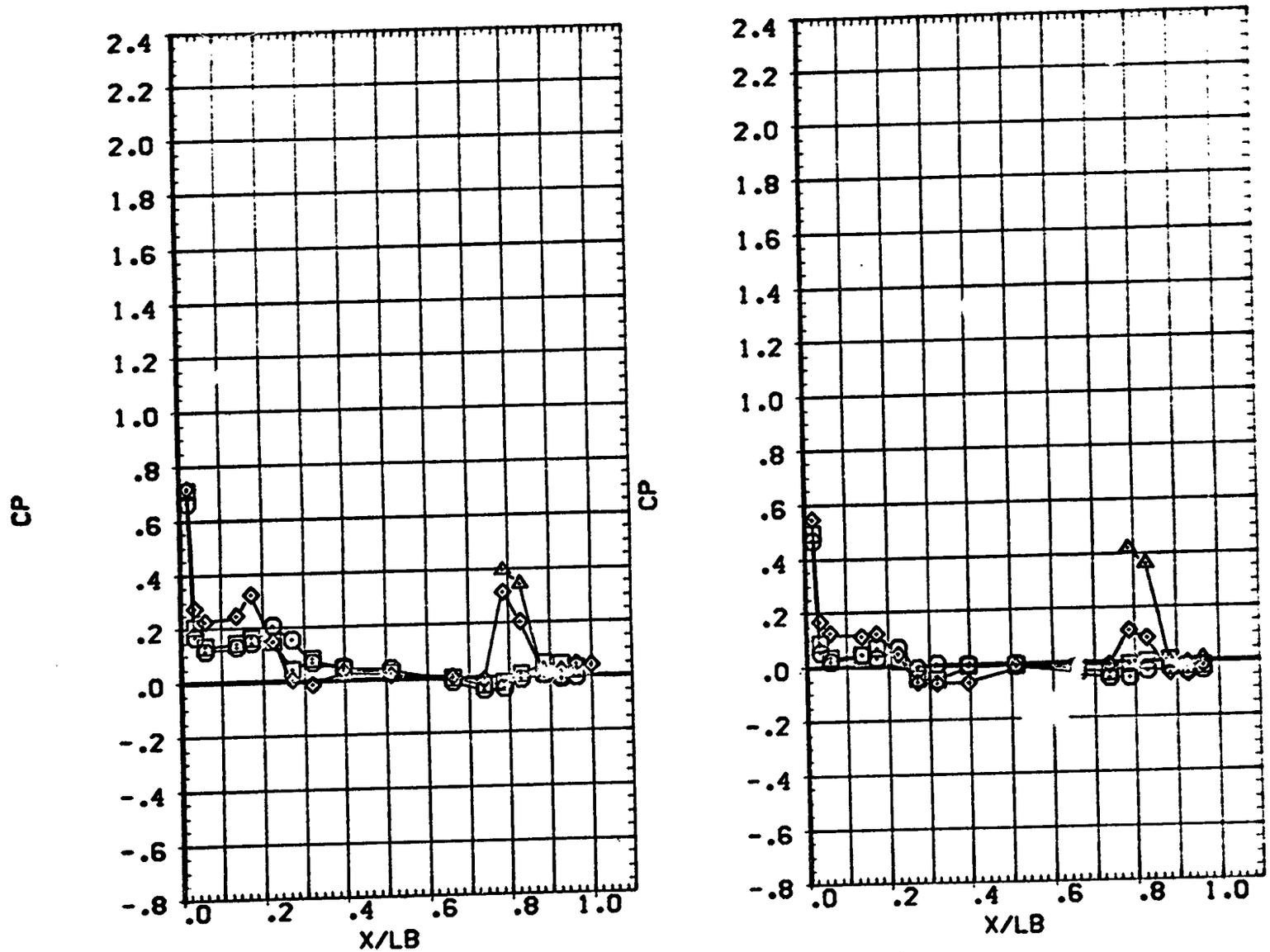
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB04)

SYMBOL	PHI	BETAT	MACH
○	70.000	-4.260	2.999
◇	90.000	2.210	
△	120.000		
	135.000		

PARAMETRIC VALUES

ALPHAT	-4.000	SPEVC	.500
RUDFR	.000	ELEVN	.000
RUDFLR	.000		



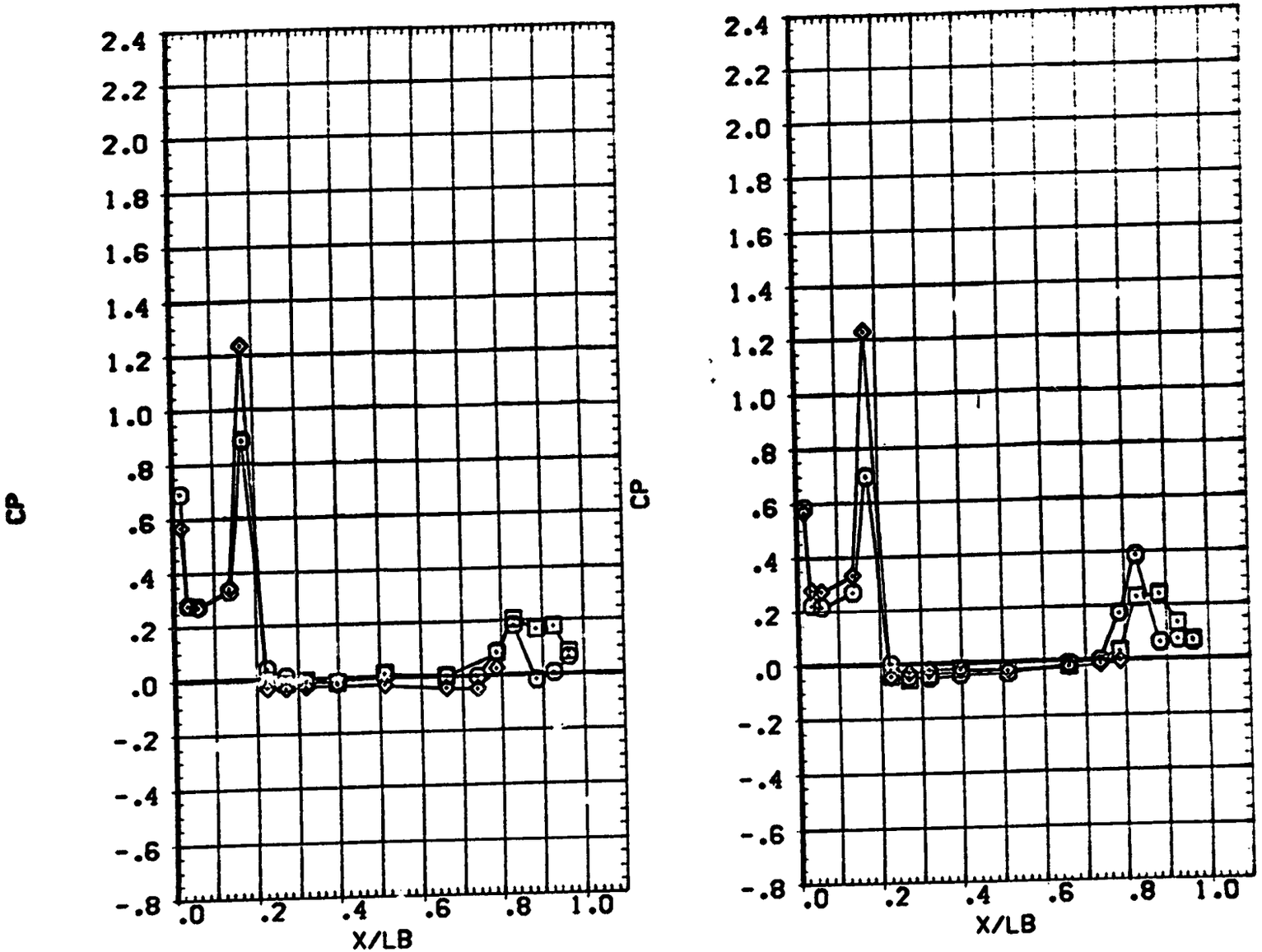
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 32A + S3 + 79 ORBITER FUSELAGE (RBNB04)

SYMBOL	PHI	BETAT	MACH
◇	150.000	-4.260	2.999
	165.000	2.710	
	180.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



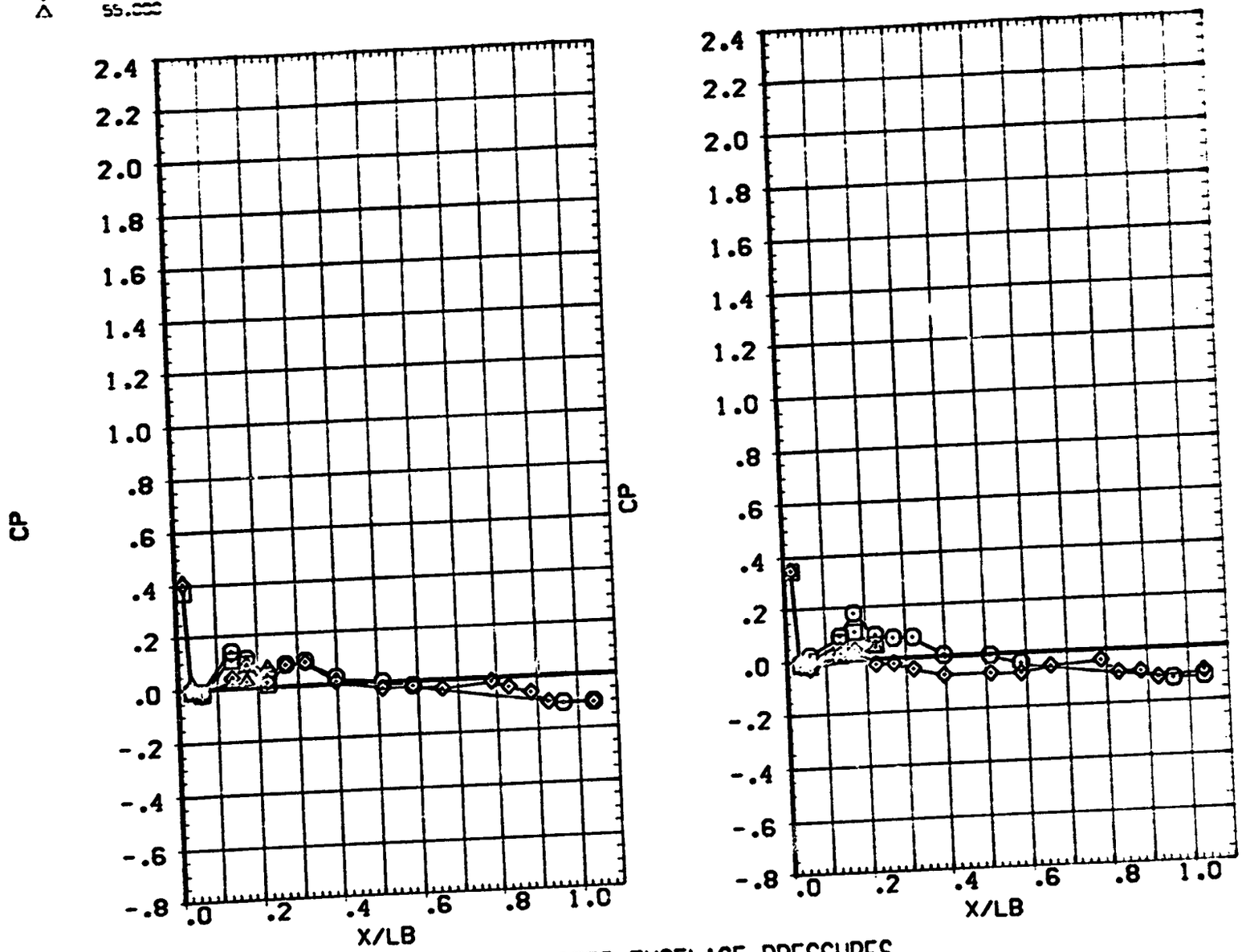
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB04)

SYMBOL	PHI	BETAT	MACH
○	.000	4.380	2.999
◇	20.0000	8.710	
△	40.0000		
	55.0000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



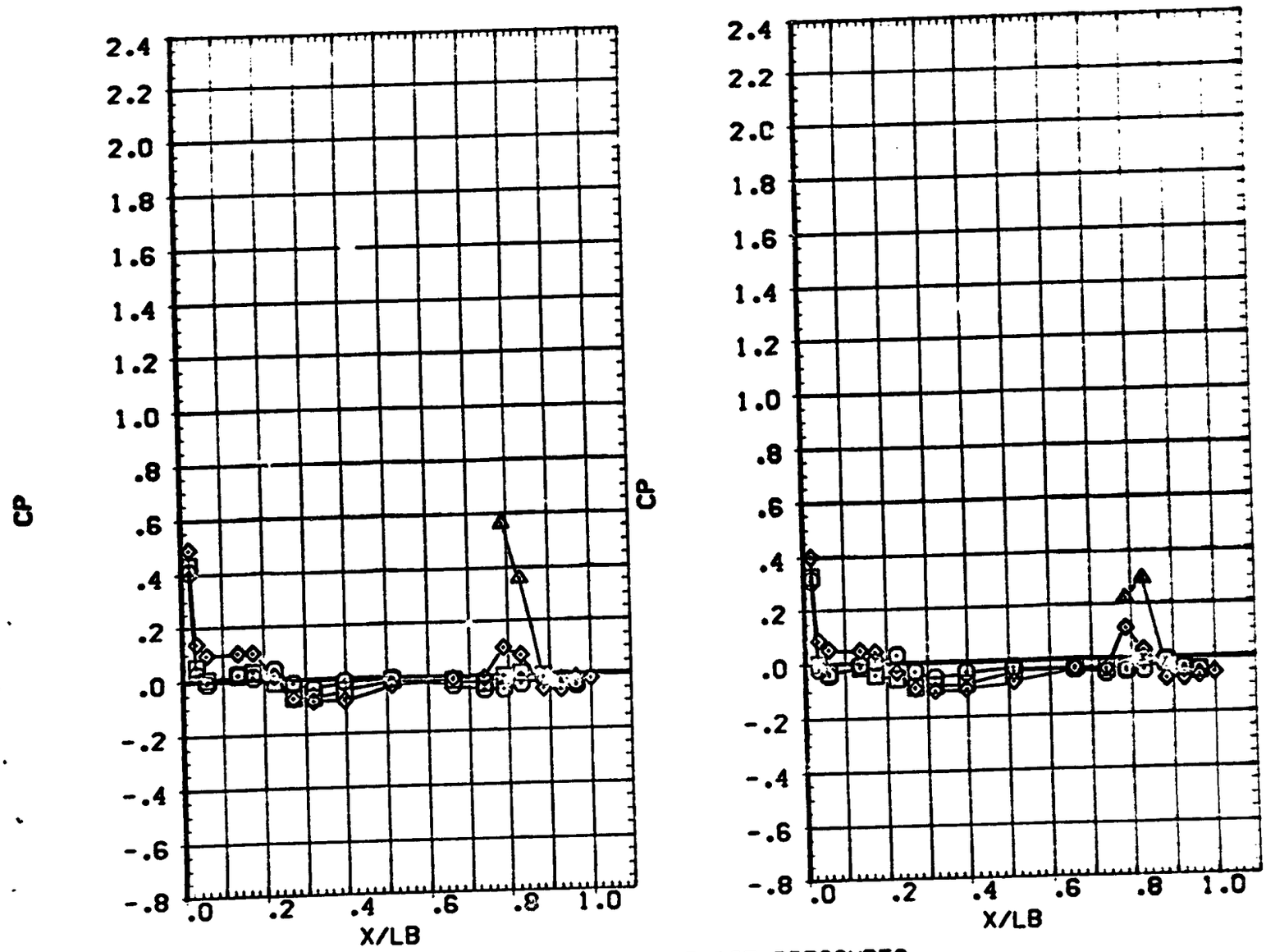
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A8 C2A + S3 + T8 ORBITER FUSELAGE (RBNBO4)

SYMBOL	PHI	BETAT	MACH
○	70.000	4.380	2.999
□	90.000	8.710	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-4.000	BODY	.000
RUDDER	.000	ELEVN	.000
RUDFLR	.000		



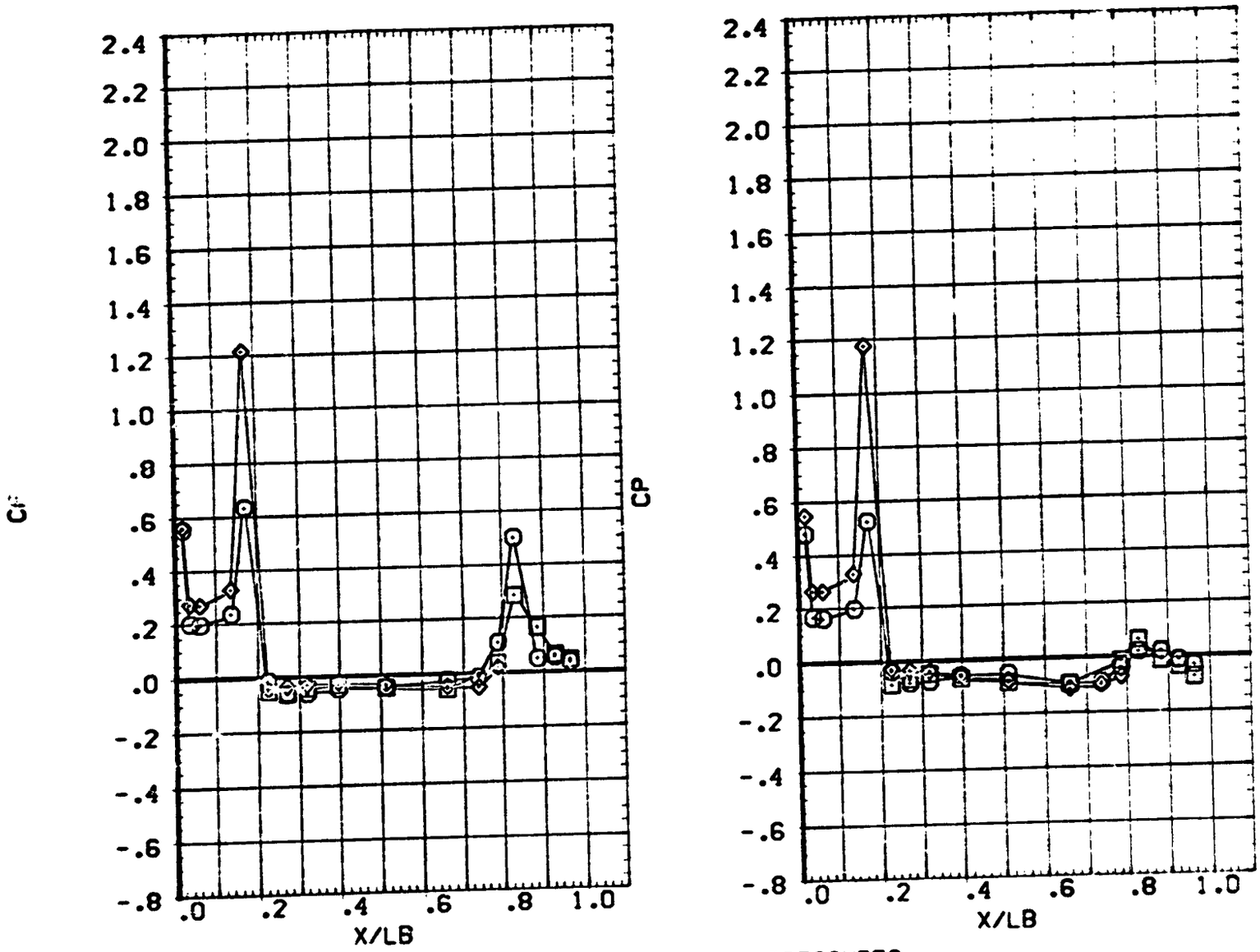
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A - S3 - T9 ORBITER FUSELAGE (RBNBC4)

SYMBOL	PHI	BETAT	MACH
○	:50.000	4.380	2.999
□	:65.000	8.710	
◇	:80.000		

PARAMETRIC VALUES

ALPHAT	-4.000	SPOINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



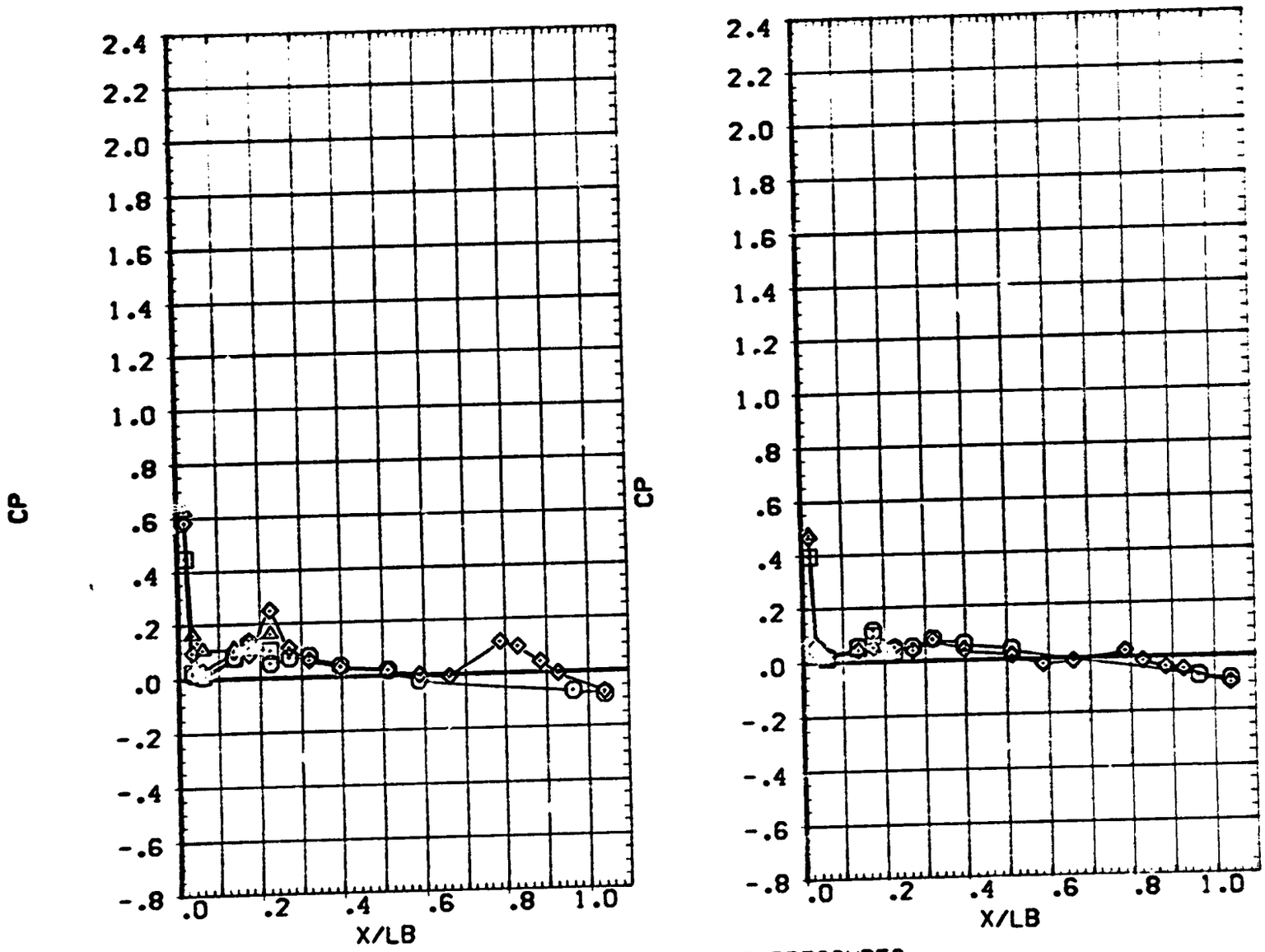
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 (AS 02A + S3 + T9 ORBITER FUSELAGE (RBNBO4)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.340	3.502
◇	20.000	2.260	
△	40.000		
	55.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.000
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



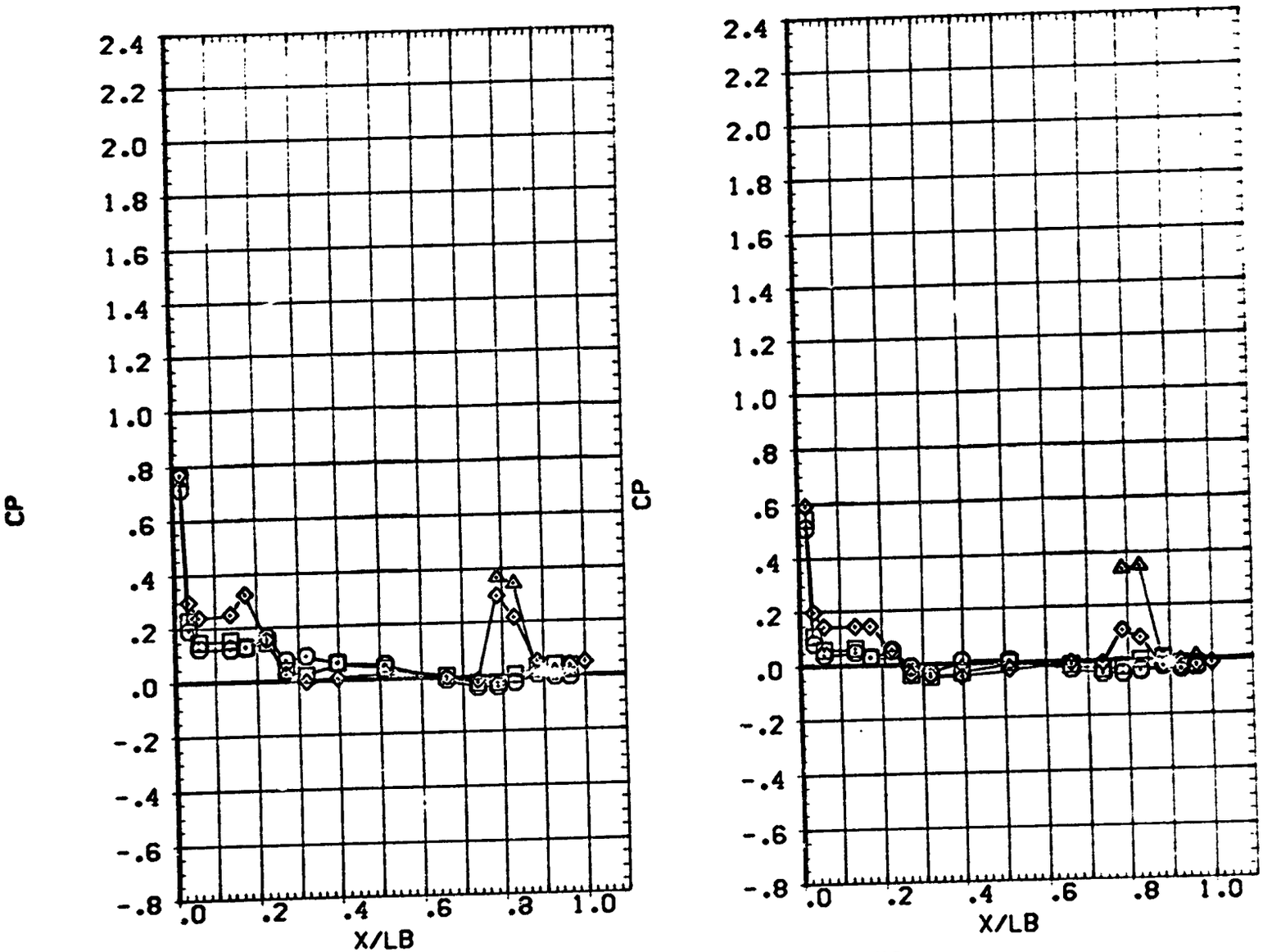
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 02A - S3 + 19 ORBITER FUSELAGE (CONDUIT)

SYMBOL	PHI	BETAT	MACH
○	70.000	-4.340	3.502
□	90.000	2.260	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



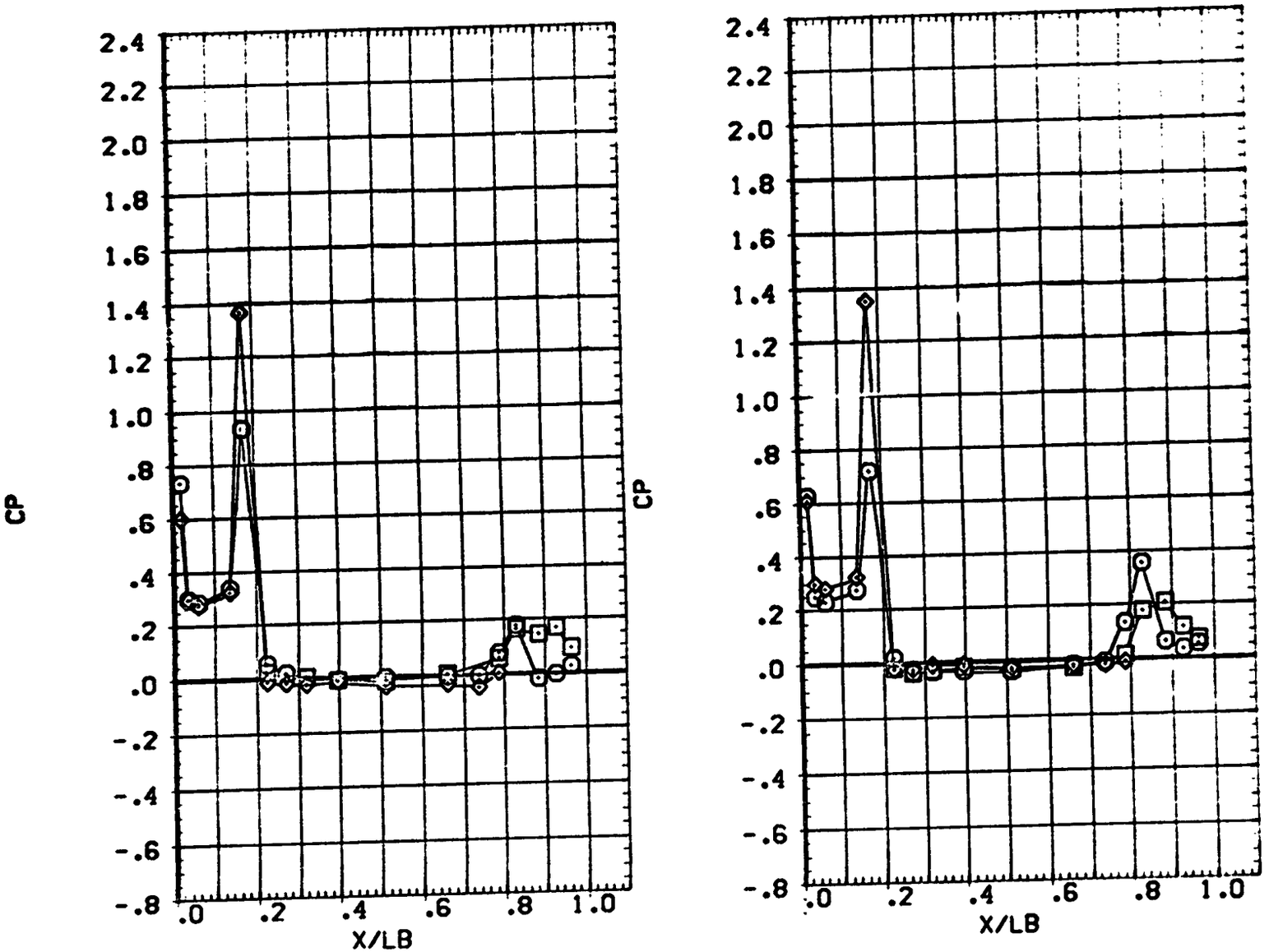
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 ;A9 02A + S3 + T9 ORBITER FUSELAGE (RBNB04)

SYMBOL	PHI	BETAT	MACH
○	150.000	-4.340	3.502
□	165.000	2.260	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	-4.000	SPB:NC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



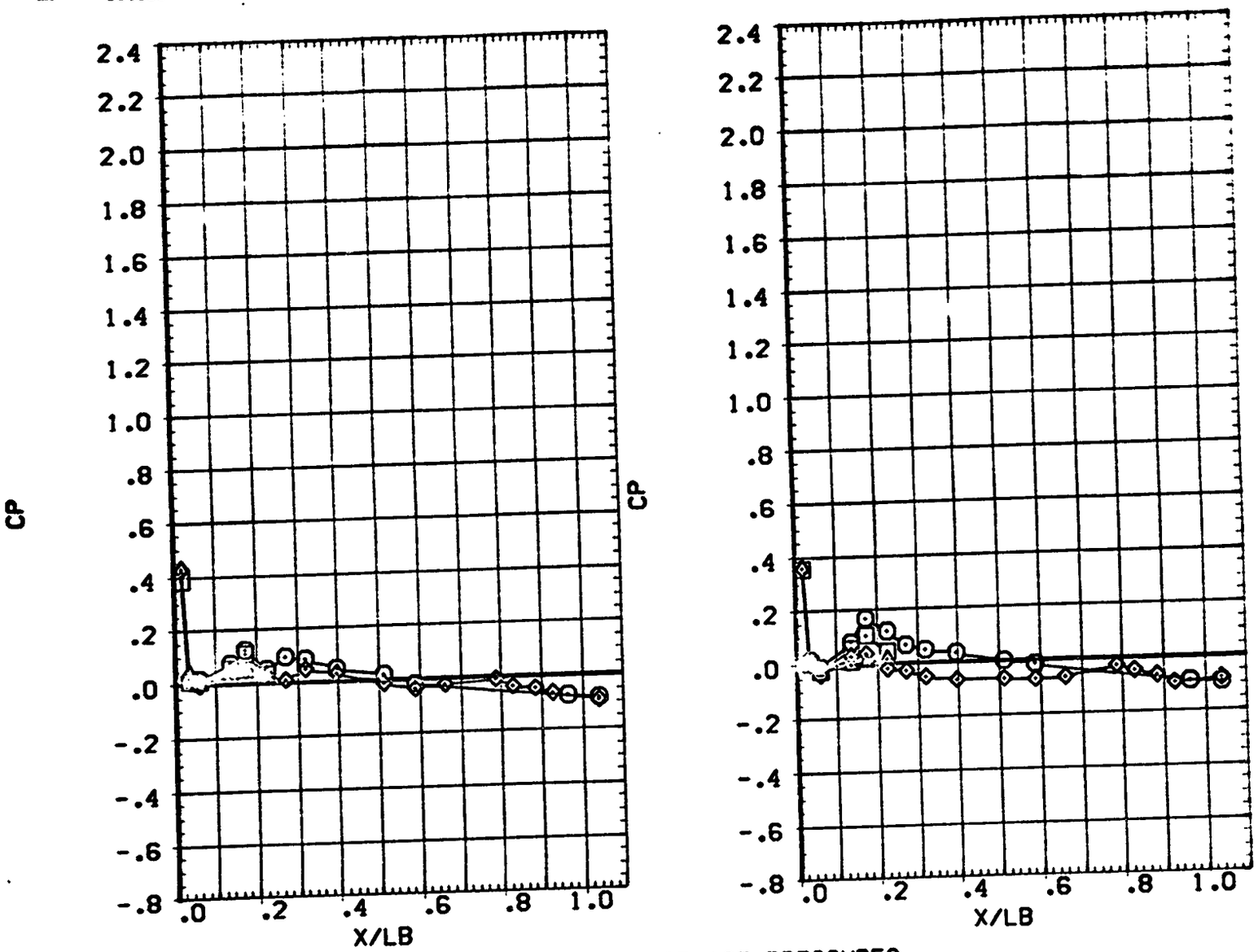
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 :A9 C2A - S3 + T9 ORBITER FUSELAGE (RBNB04)

SYMBOL	PHI	BETAT	MACH
○	.000	4.460	3.502
□	20.000	8.870	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



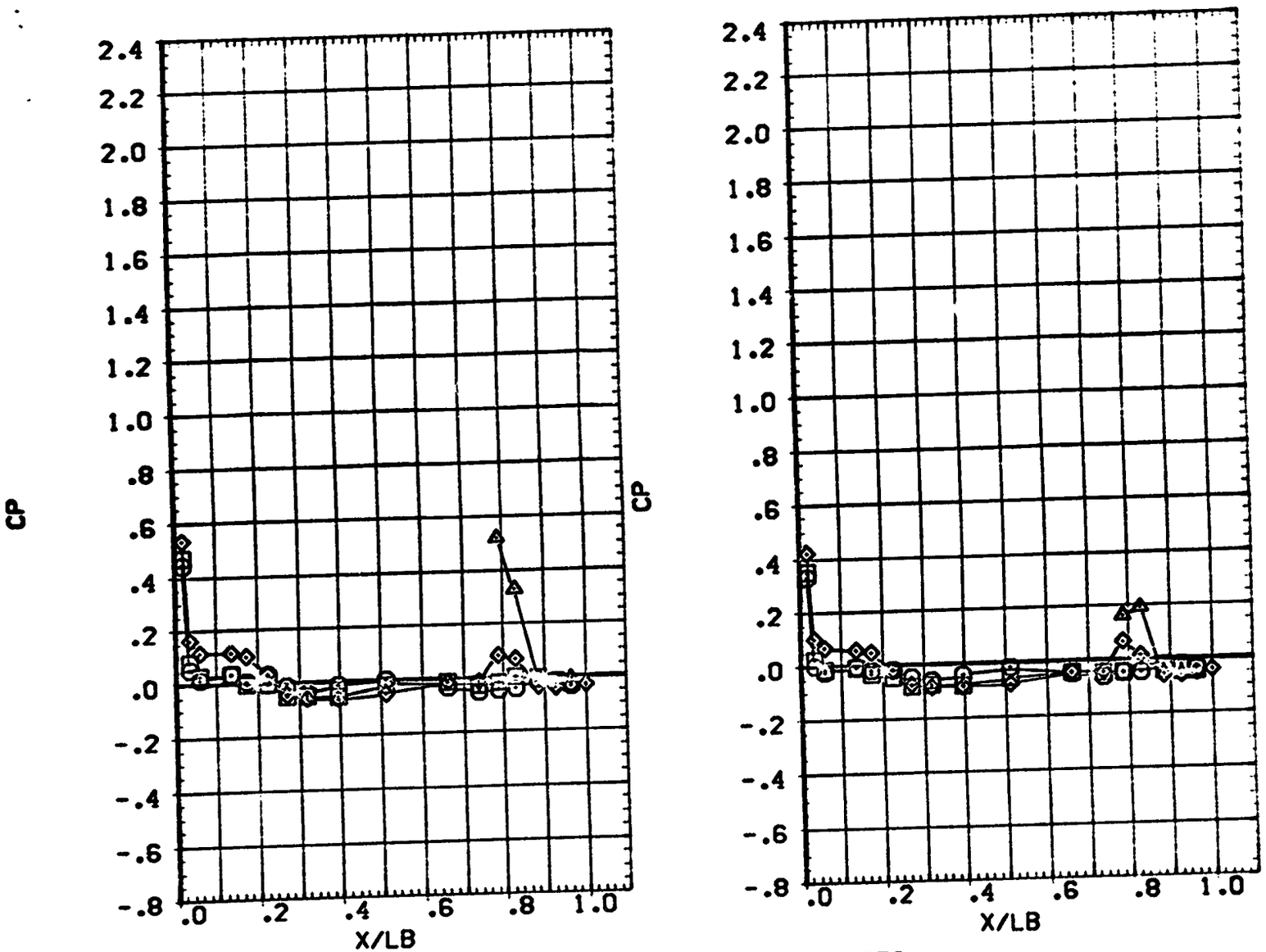
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB04)

SYMBOL	PHI	BETAT	MACH
○	70.000	4.460	3.502
◇	90.000	8.870	
▽	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



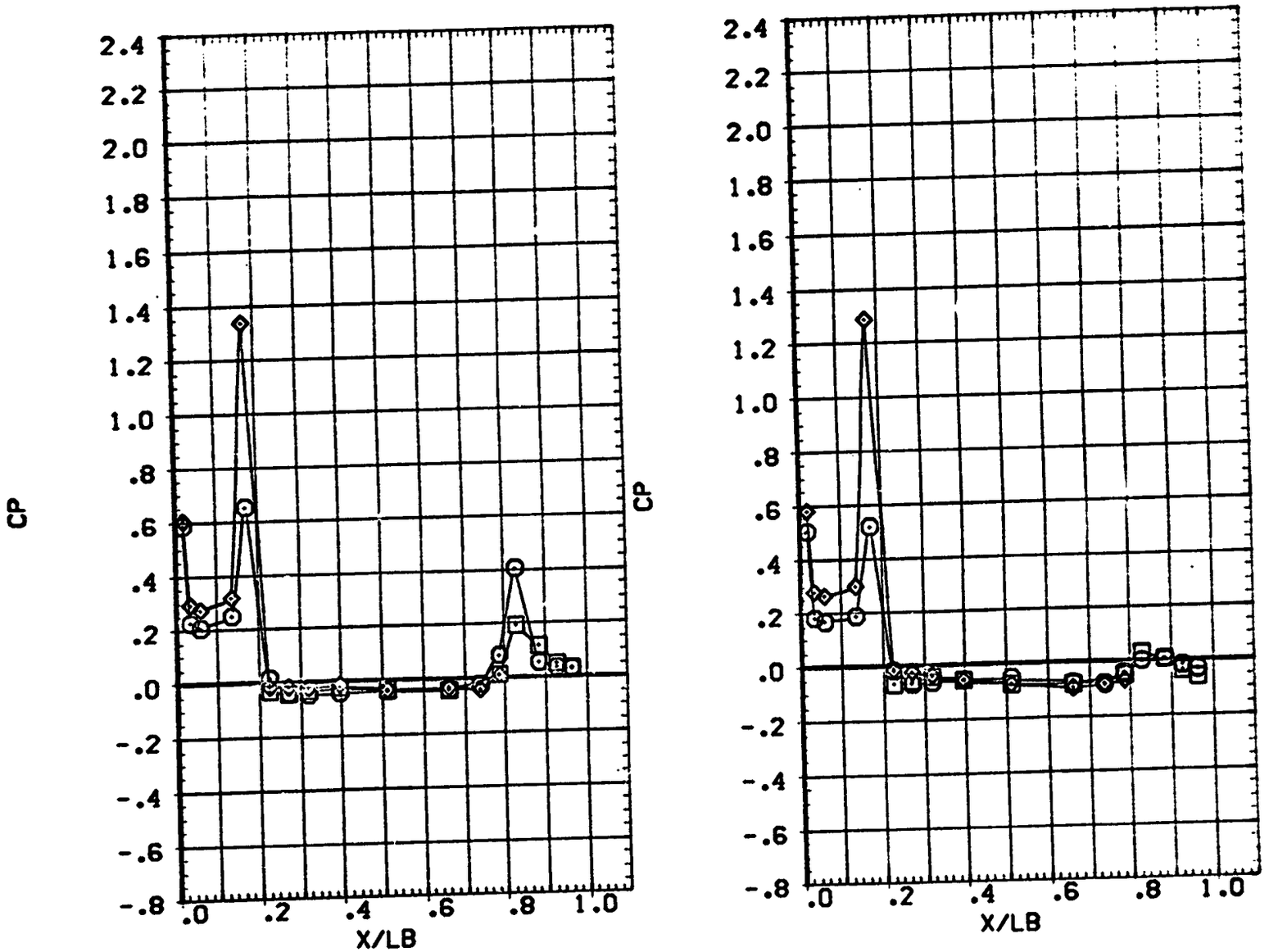
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBNB04)

SYMBOL	PHI	BETA	MACH
○	150.000	4.460	3.502
□	165.000	8.870	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	-4.000	SRB/C	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



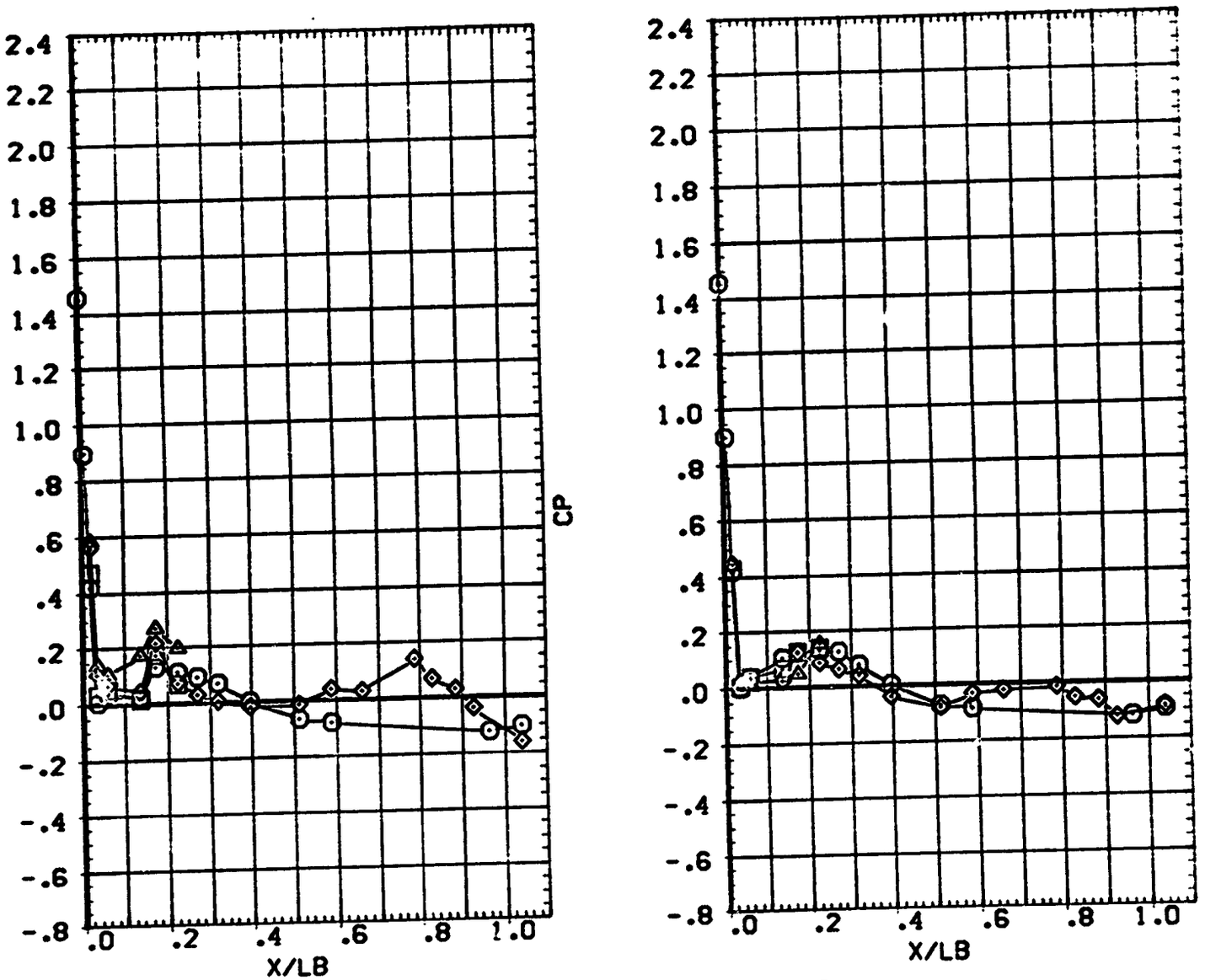
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 :A9 02A + S3 + T9 ORBITER FUSELAGE (RBNB06)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.:90	2.498
□	20.000	2.170	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



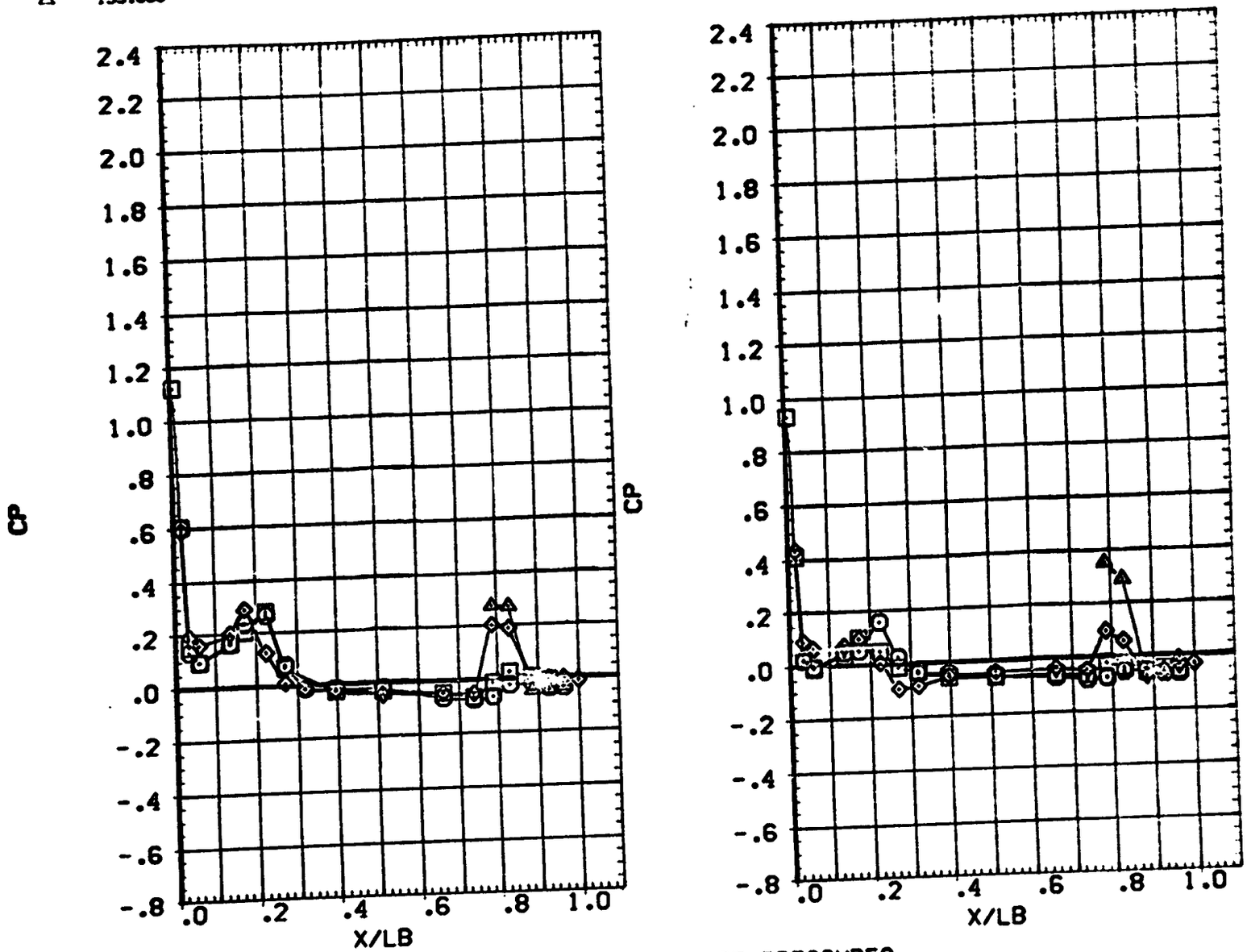
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBNB06)

SYMBOL	PHI	BETAT	MACH
○	70.000	-4.190	2.498
□	90.000	2.170	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROLLR	.000		



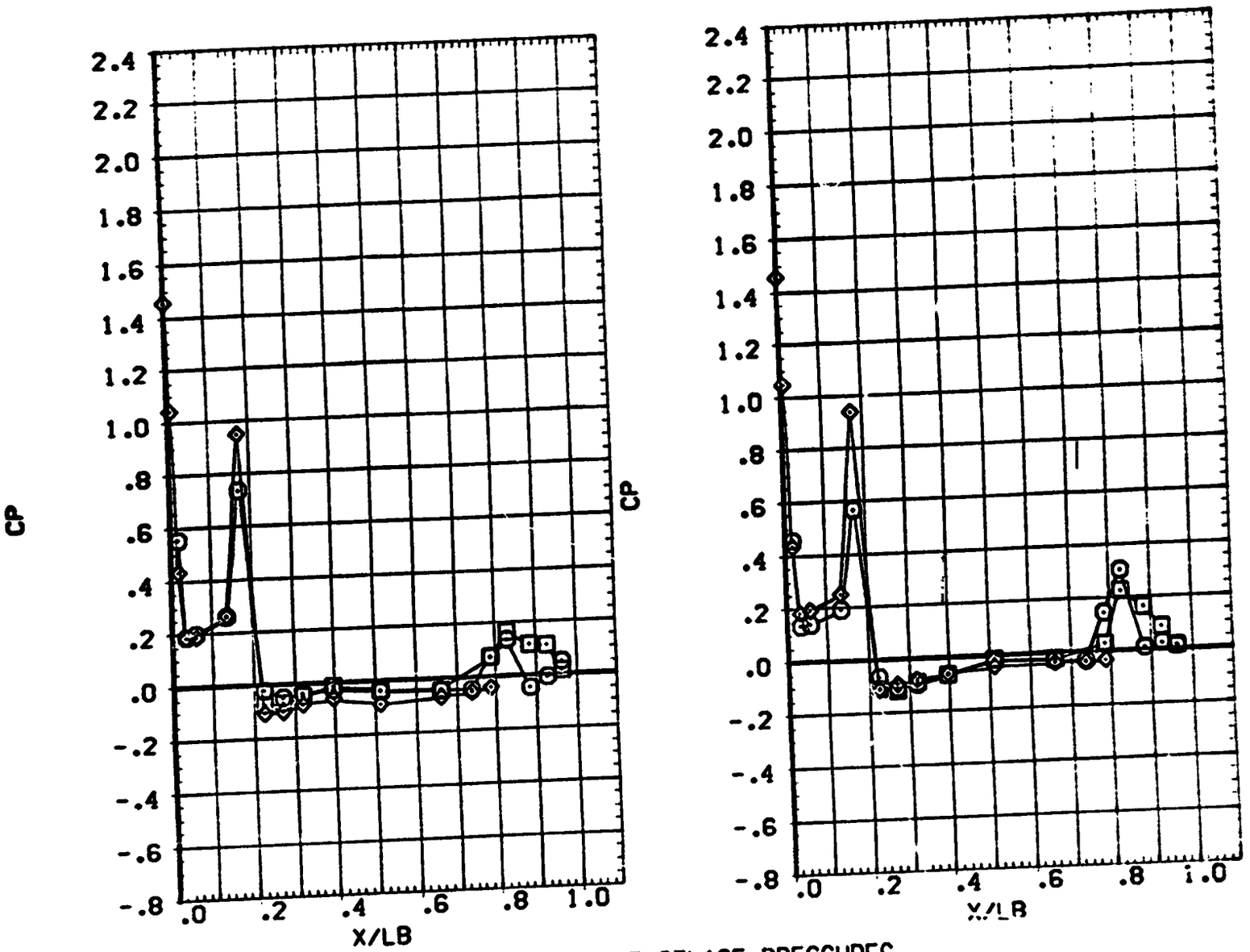
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 32A + S3 + T9 ORBITER FUSELAGE (RBNB06)

SYMBOL	PHI	BETA	MACH
◇	150.000	-4.190	2.458
	165.000	2.170	
	180.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVN	.000
RUDFLR	.000		



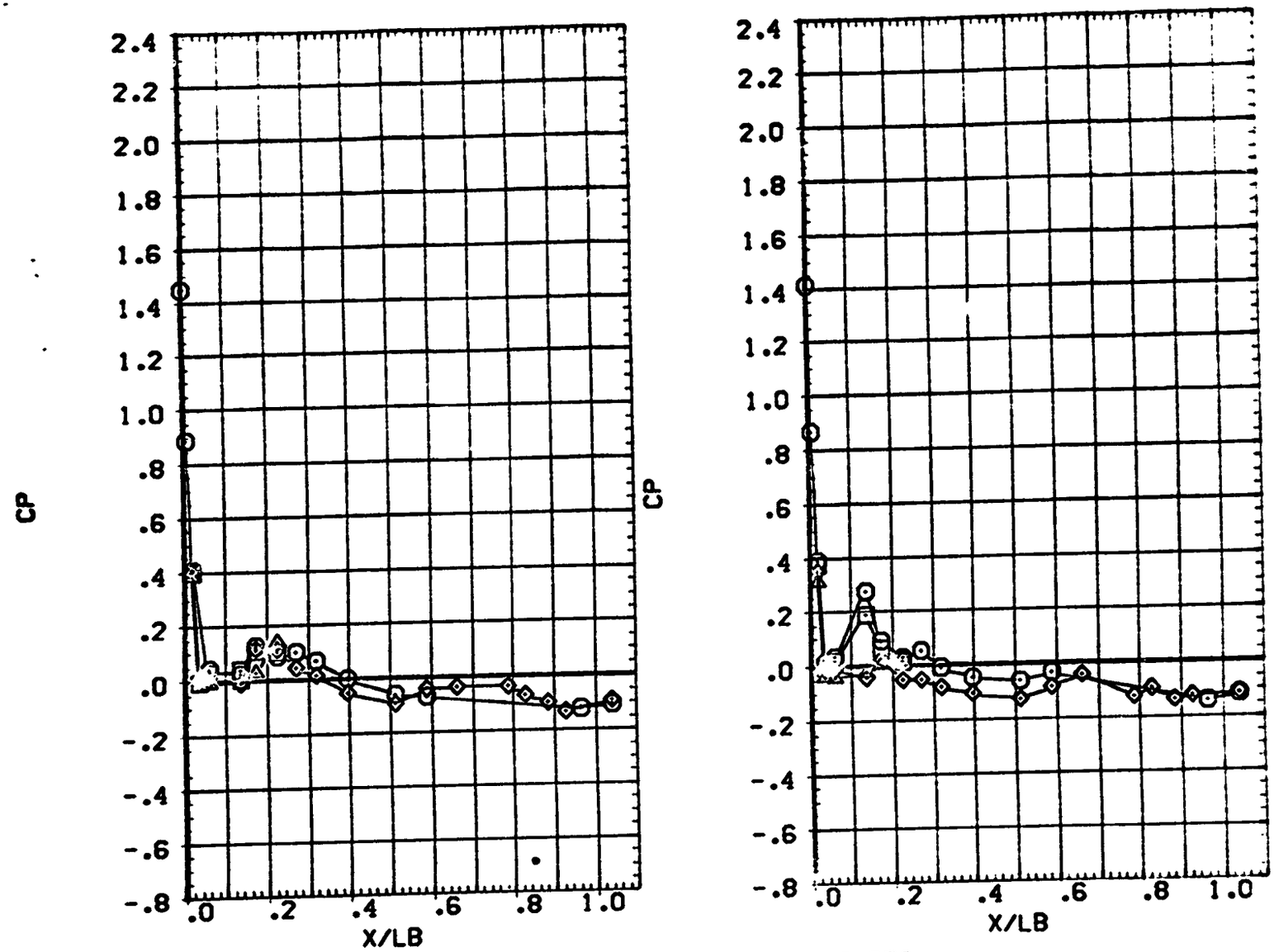
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB06)

SYMBOL	PHI	BETAT	MACH
○	.000	4.290	7.498
□	20.000	8.540	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



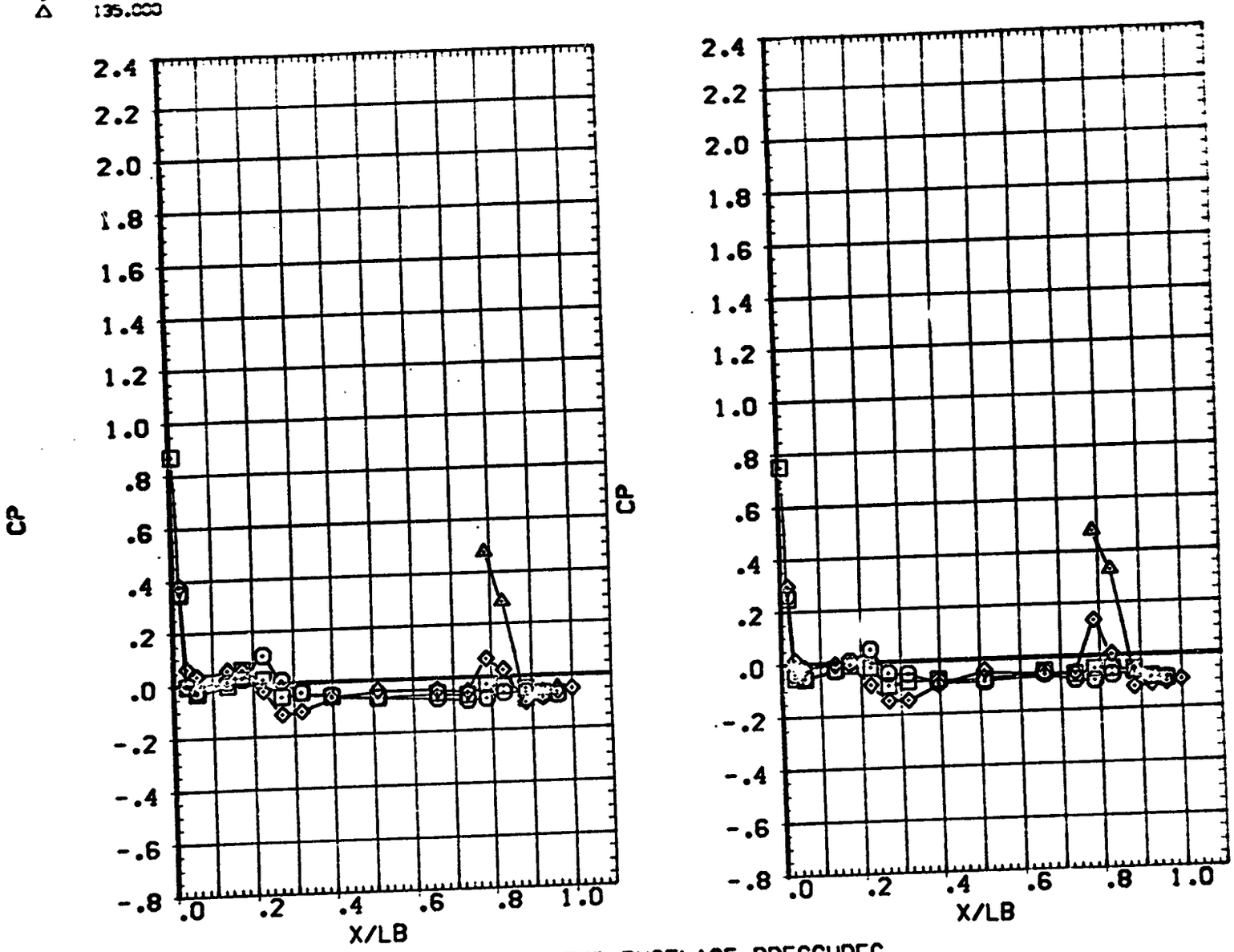
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBN806)

SYMBOL	PHI	BETAT	MACH
○	70.000	4.290	2.498
□	90.000	8.540	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



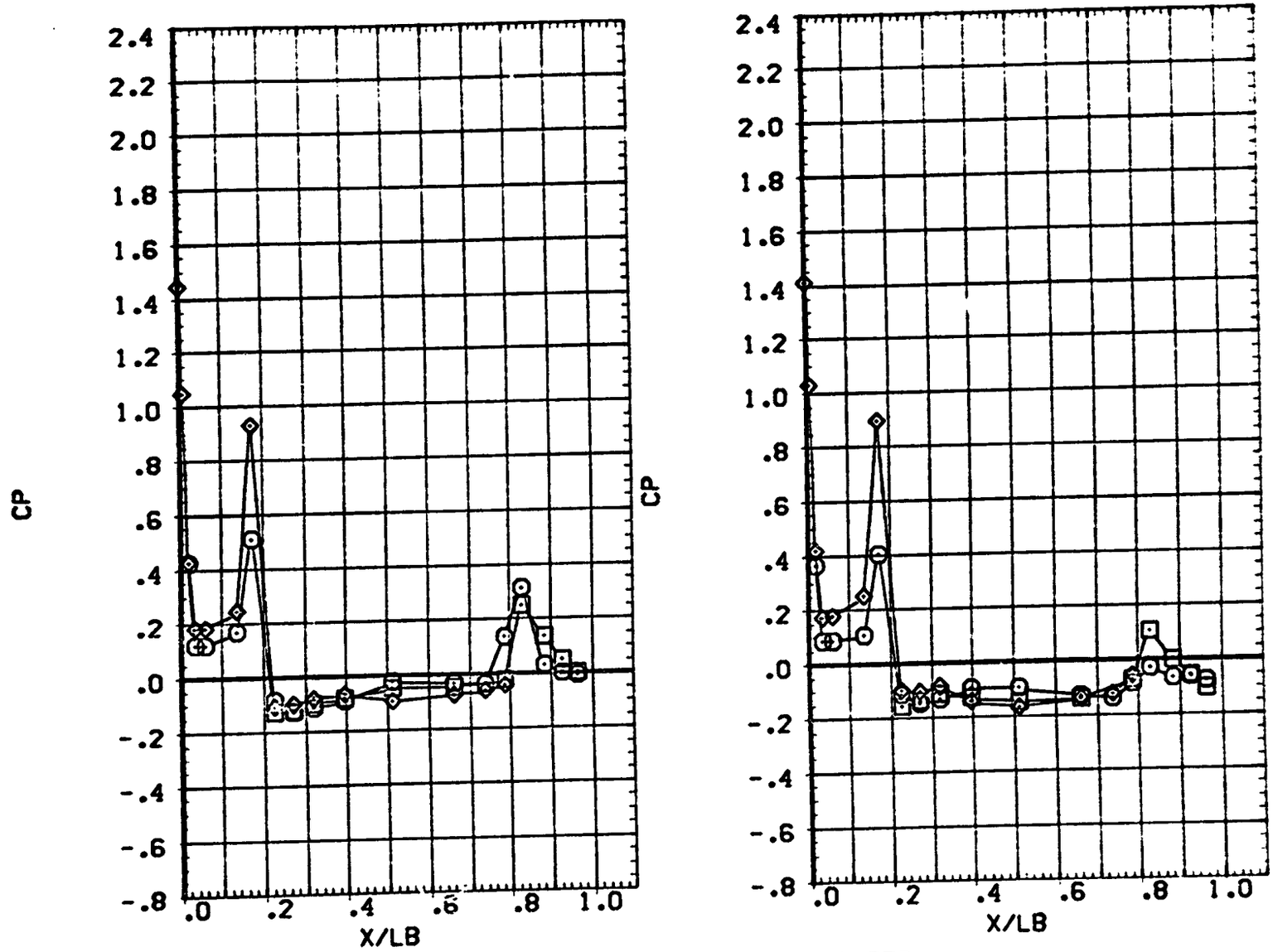
LONGITUBINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 :A9 CPA + S3 + T9 ORBITER FUSELAGE (RBN306)

SYMBOL	PHI	BETAT	MACH
○	150.000	4.290	2.498
□	165.000	8.540	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



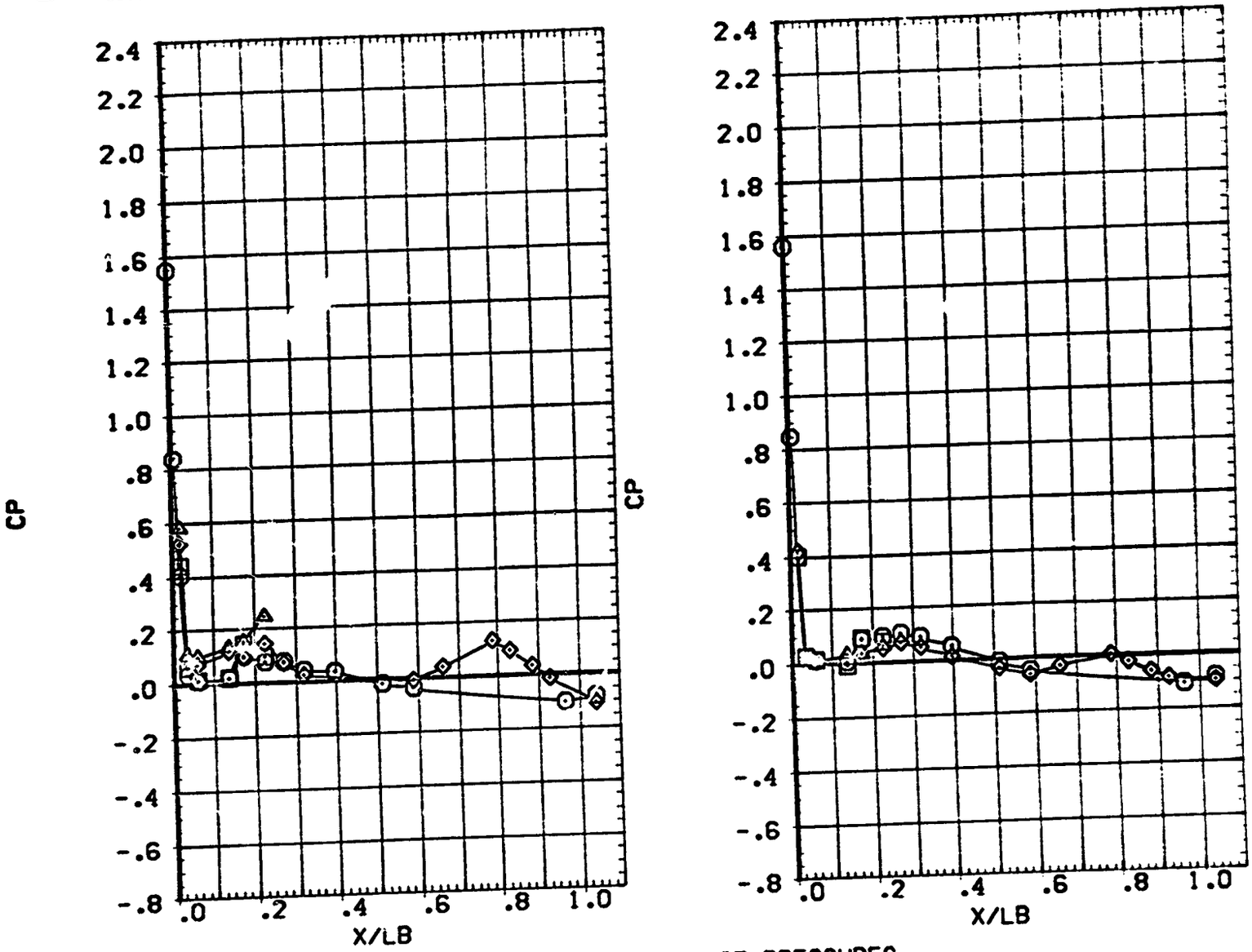
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNBC6)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.270	7.999
□	20.000	2.210	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



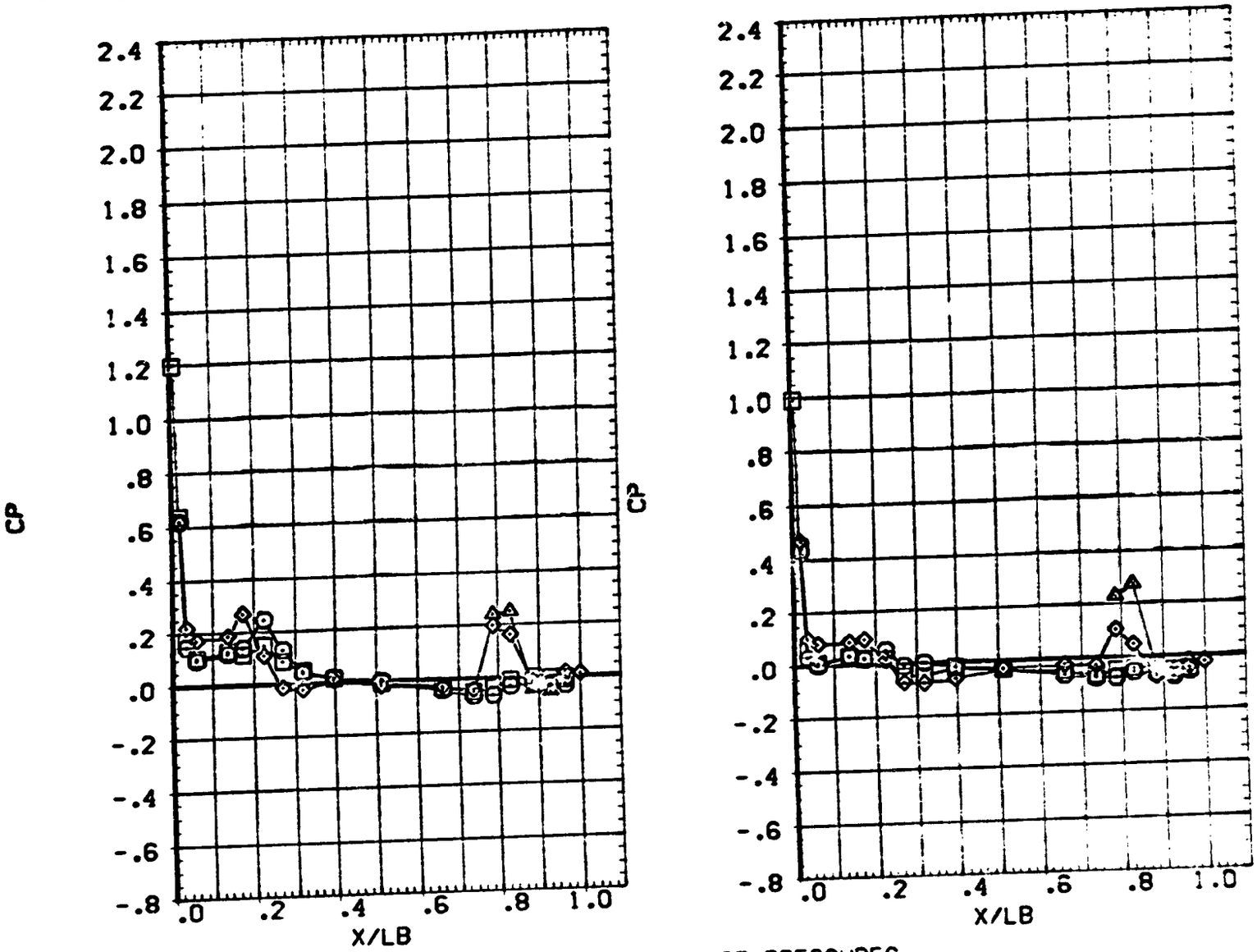
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBN306)

SYMBOL	PHI	BETAT	MACH
○	70.0000	-4.270	2.999
□	90.0000	2.210	
◇	120.0000		
△	135.0000		

PARAMETRIC VALUES

ALPHAT	.000	DBINC	.500
RUDDER	.000	ELEVN	.000
RUDFLR	.000		



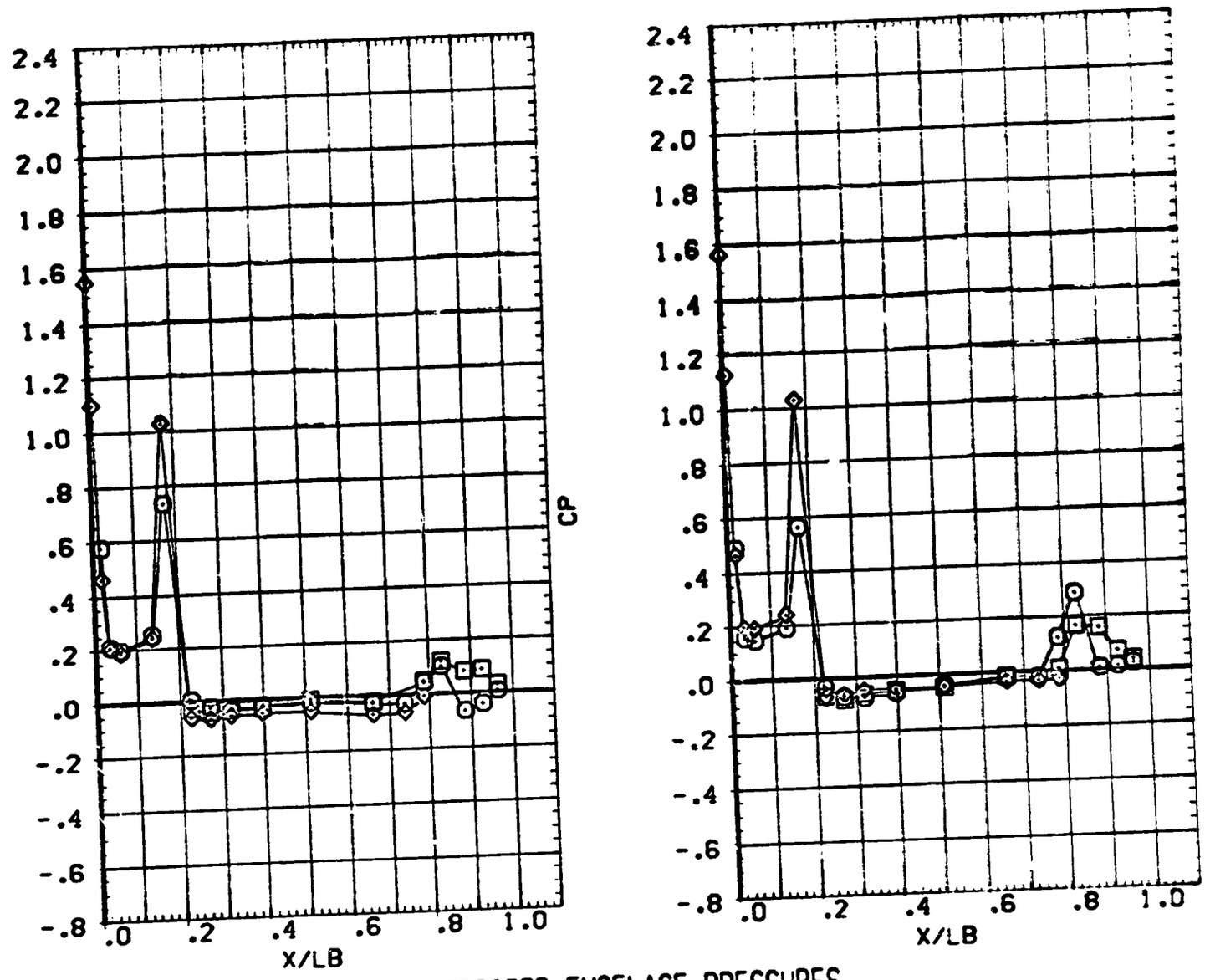
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBV306)

SYMBOL	PHI	BETAT	MACH
○	150.000	-4.270	2.999
◇	165.000	2.210	
	180.000		

PARAMETRIC VALUES

ALPHAT	.000	SPEVC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



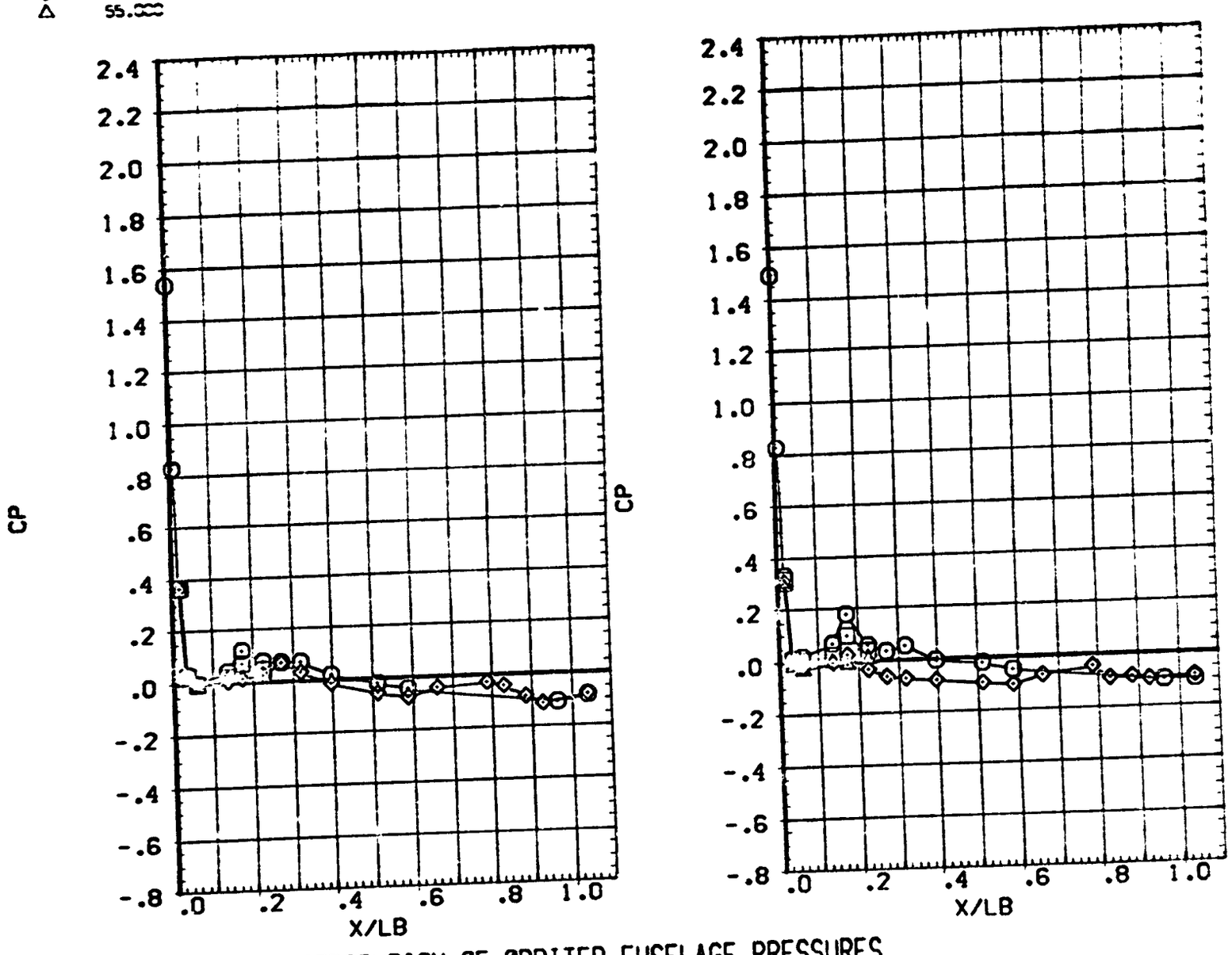
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE [UNBUB]

SYMBOL	PHI	BETA	MACH
○	.000	4.370	2.999
□	20.000	8.690	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	SPOINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



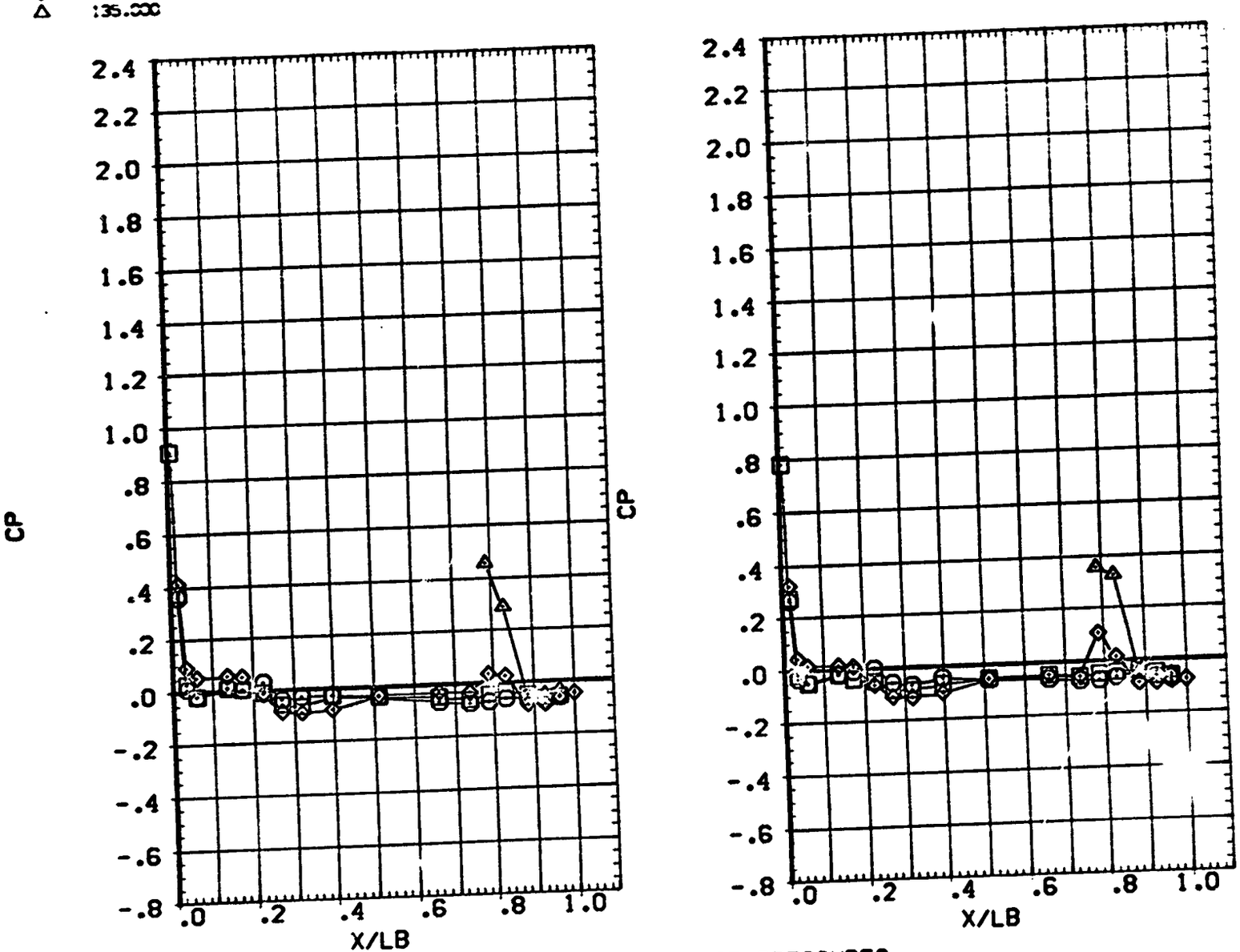
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBNB06)

SYMBOL	PHI	BETAT	MACH
□	70.000	4.370	2.999
◇	90.000	8.690	
△	120.000		
	135.000		

PARAMETRIC VALUES

ALPHAT	.000	SRBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



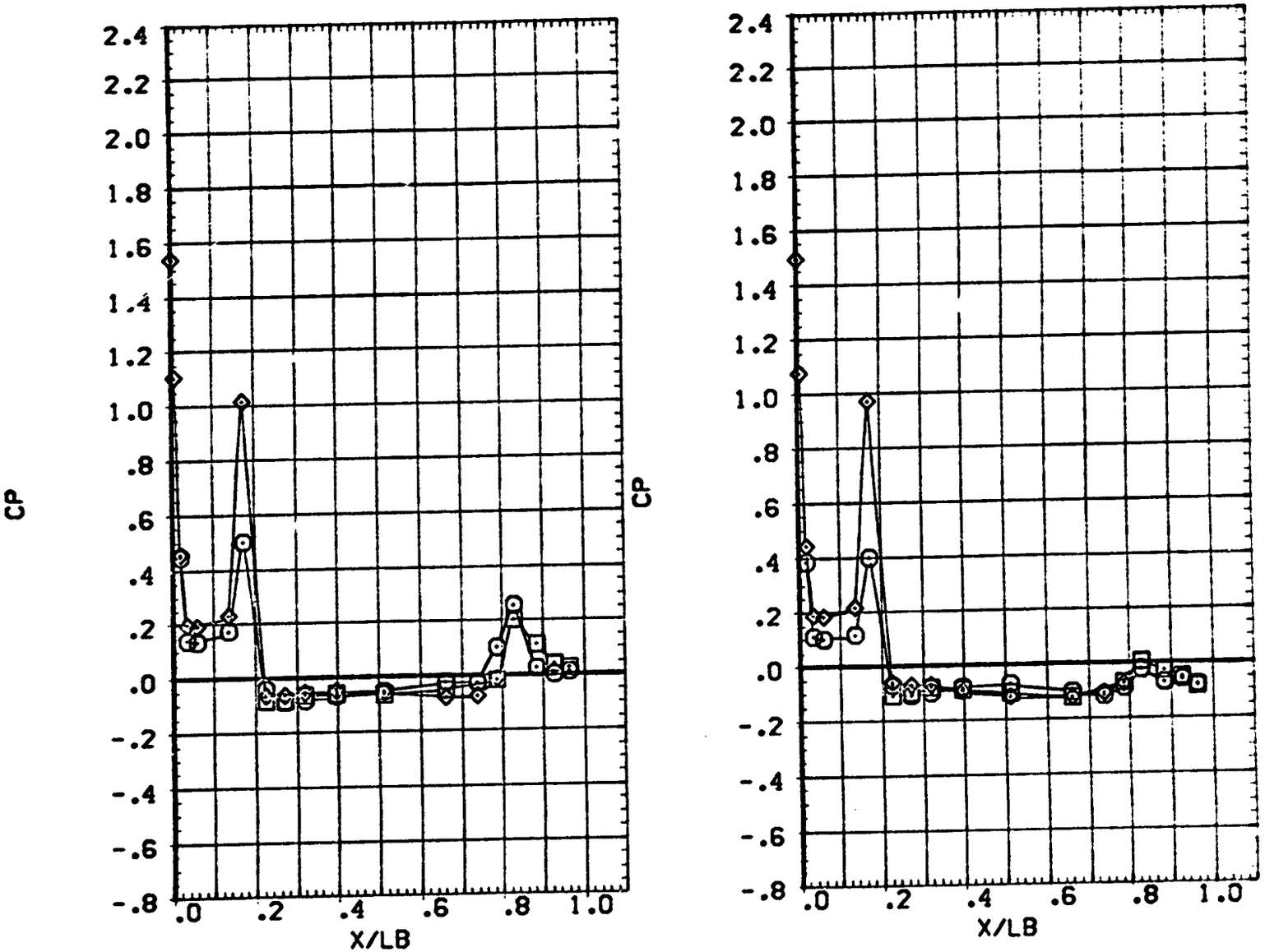
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RUN806)

SYMBOL	PHI	BETAT	MACH
◇	150.000	4.370	2.999
○	165.000	8.680	
	180.000		

PARAMETRIC VALUES

ALPHAT	.000	SB:RC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



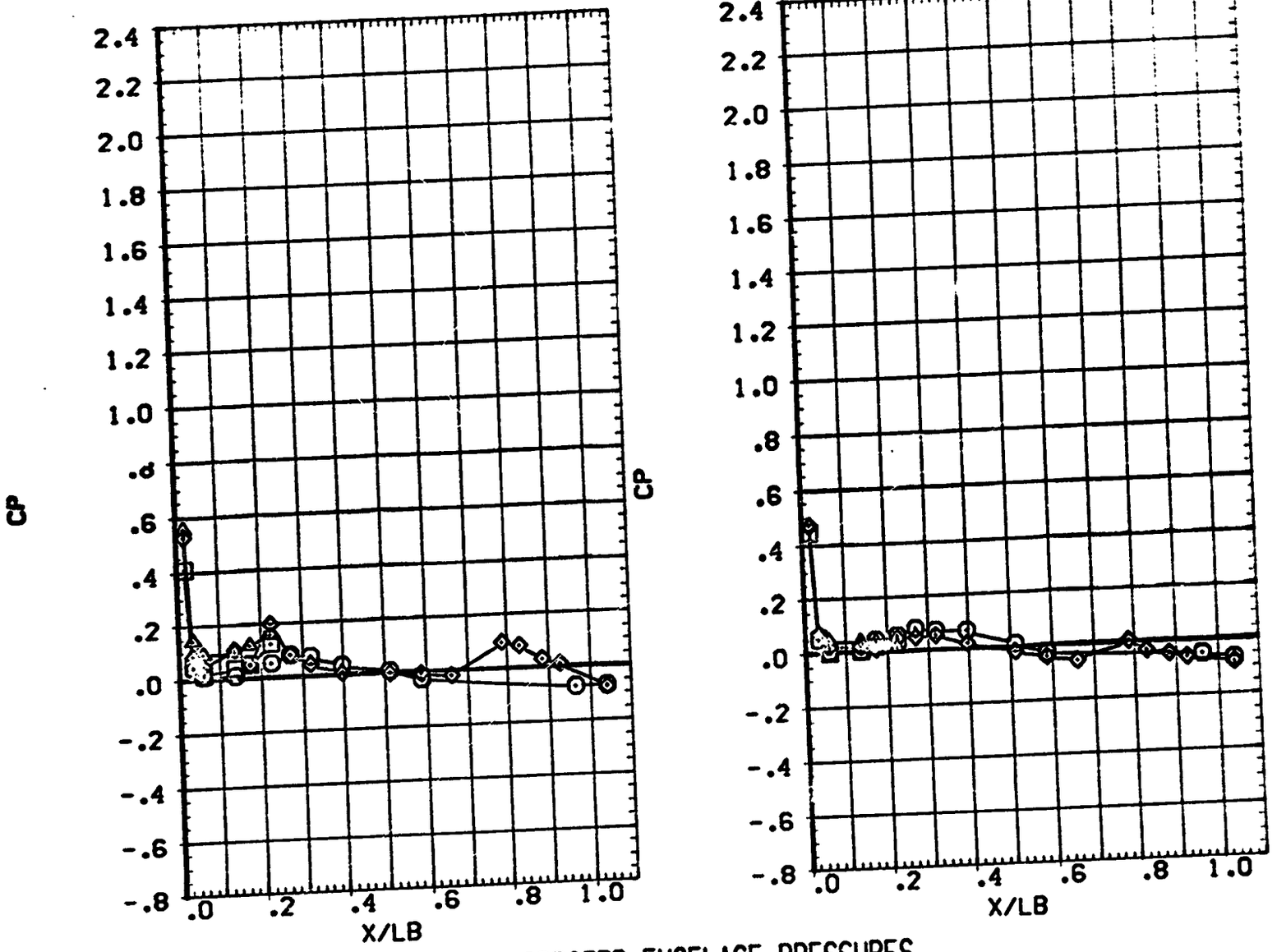
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBNB06)

SYMBOL	PHI	BETAT	MACH
○	.0000	-4.340	3.502
□	20.0000	2.260	
◇	40.0000		
△	55.0000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



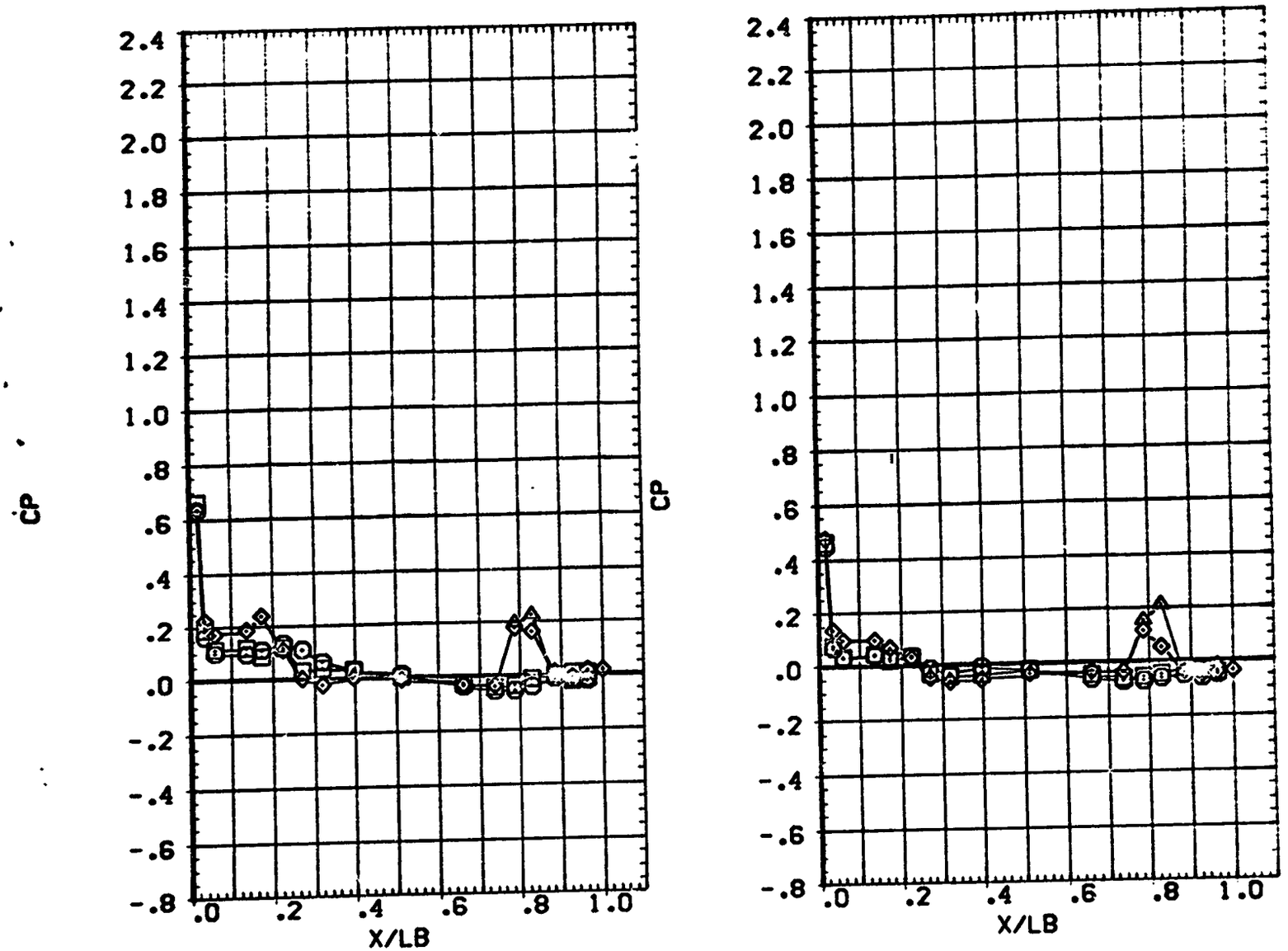
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB06)

SYMBOL	PHI	BETAT	MACH
○	70.000	-4.340	3.502
□	90.000	2.260	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



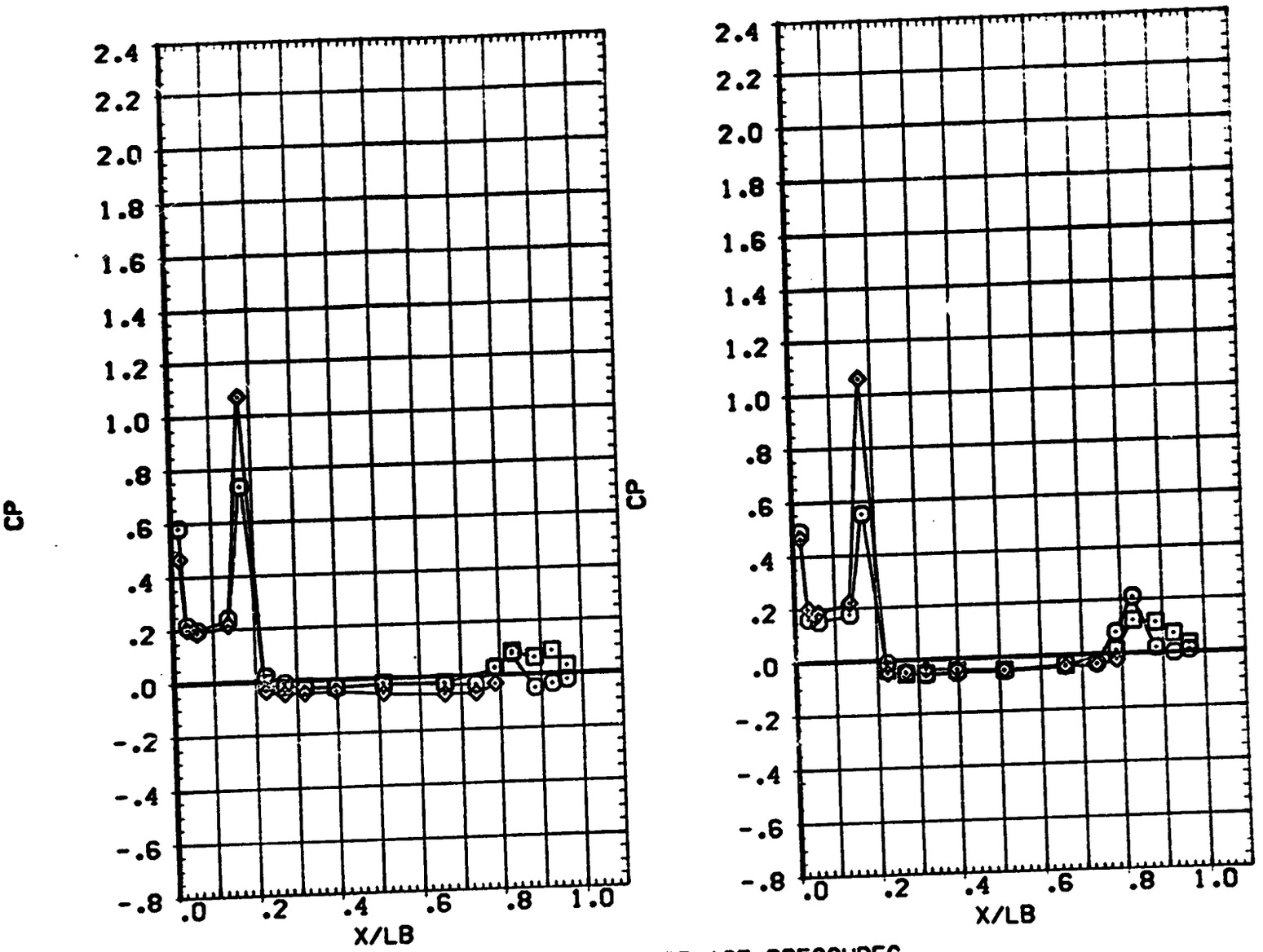
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AYES 87-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBNB06)

SYMBOL	PHI	BETAT	MACH
◇	150.000	-4.340	3.502
	165.000	2.260	
	180.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



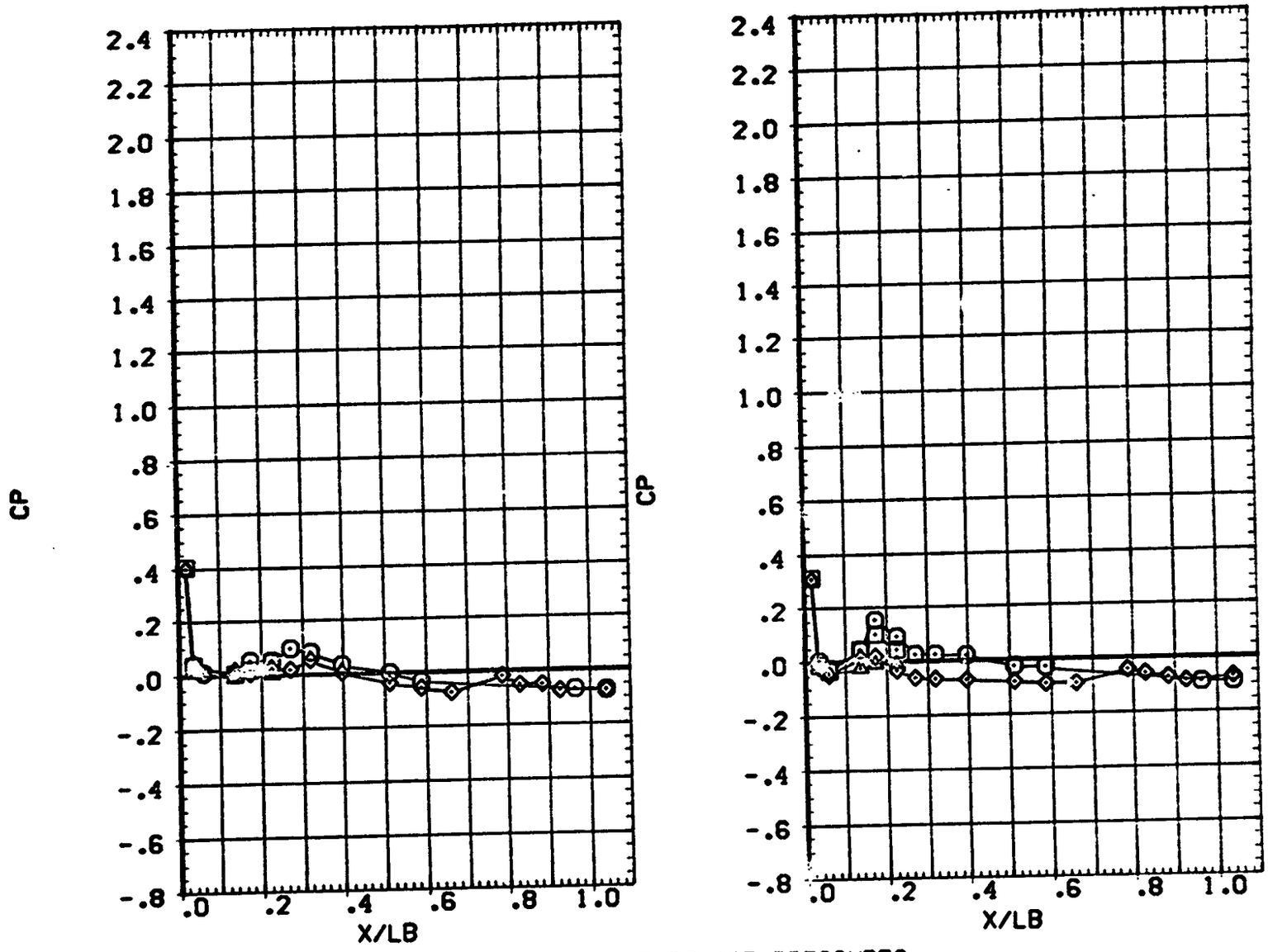
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBNB06)

SYMBOL	PHI	BETAT	MACH
○	.000	4.450	3.502
□	20.000	8.850	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



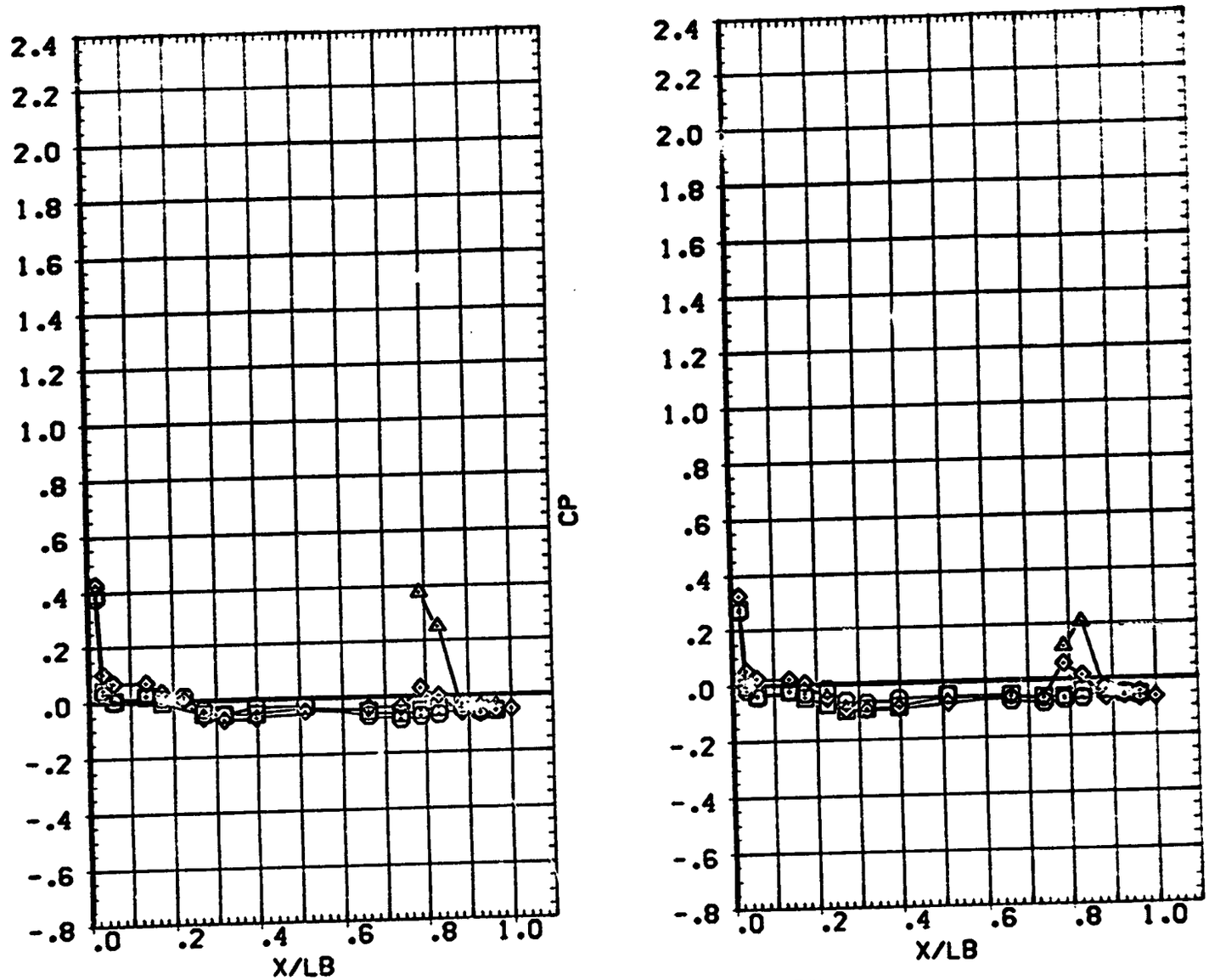
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 02A + S3 + T9 ORBITER FUSELAGE (RBNB06)

SYMBOL	PHI	BETA	MACH
○	70.000	4.450	3.502
◇	90.000	8.850	
▽	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



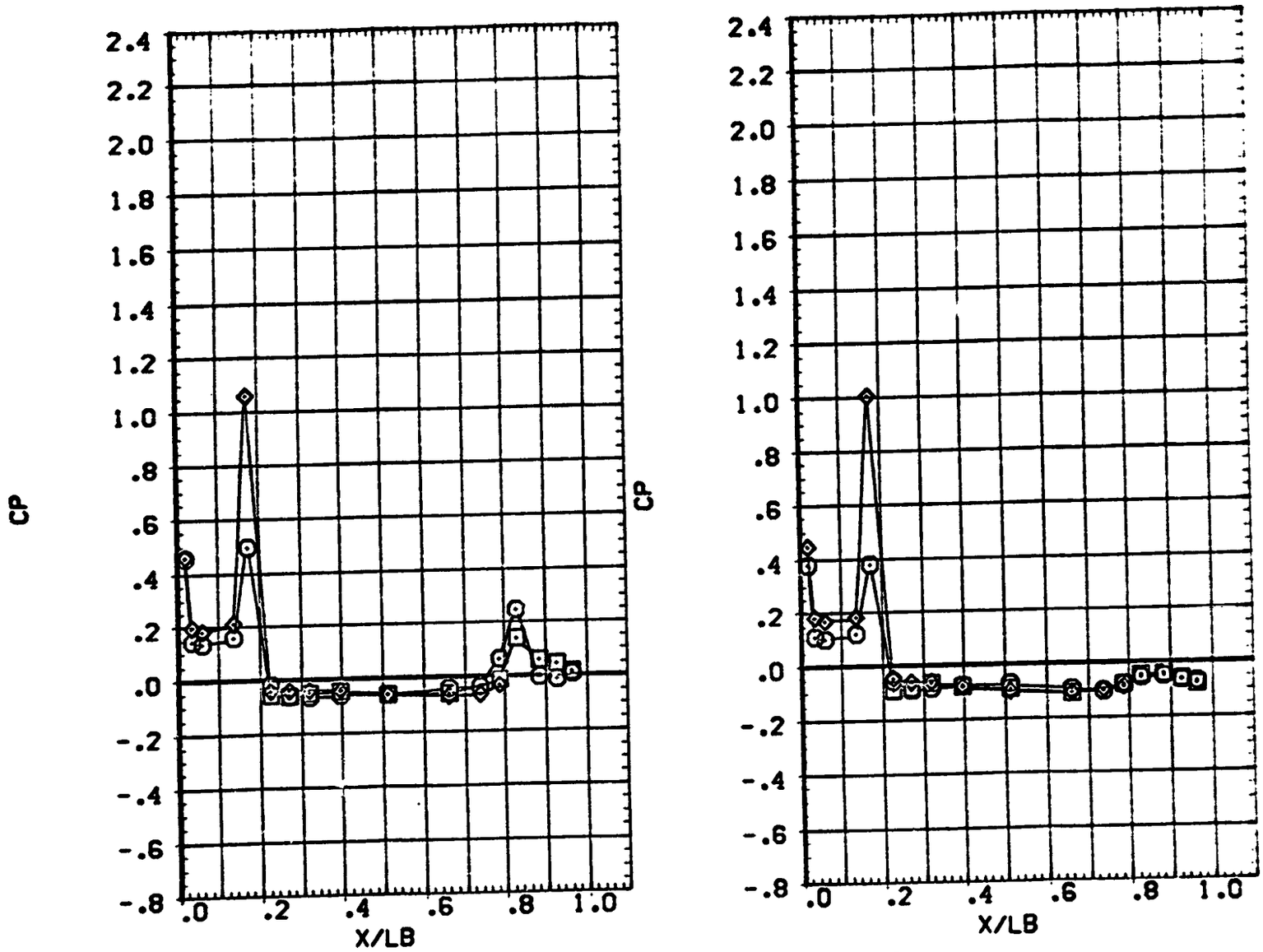
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AYES 87-707 :A9 C2A + S3 + 79 ORBITER FUSELAGE (RBN806)

SYMBOL	PHI	BETAT	MACH
◇	150.0000	4.450	3.502
	165.0000	8.850	
◇	180.0000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



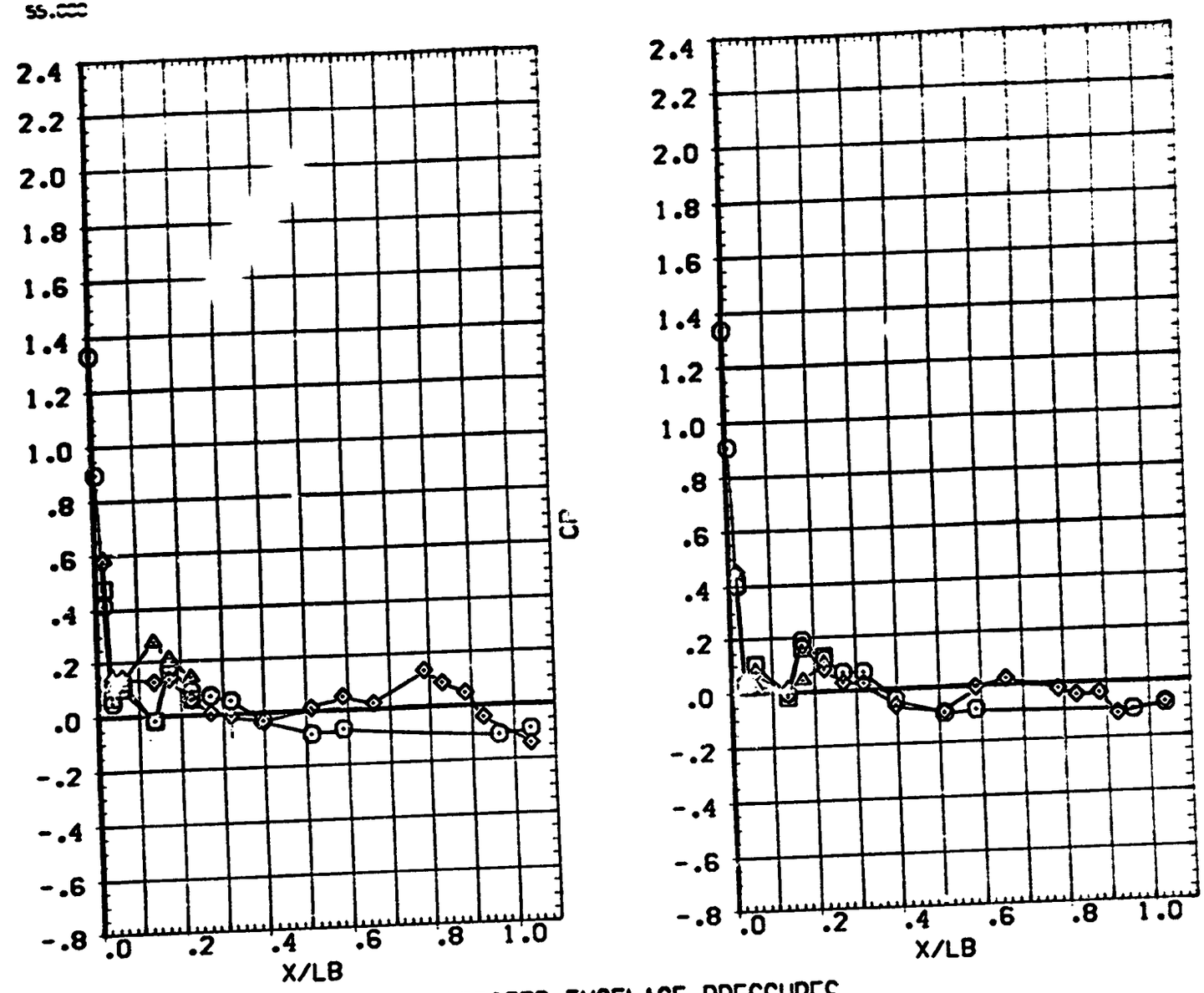
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AYES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNBC8)

SYMBOL	PH:	BETAT	MACH
□	.000	-4.150	2.498
○	20.000	2.170	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	4.000	BODYNC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



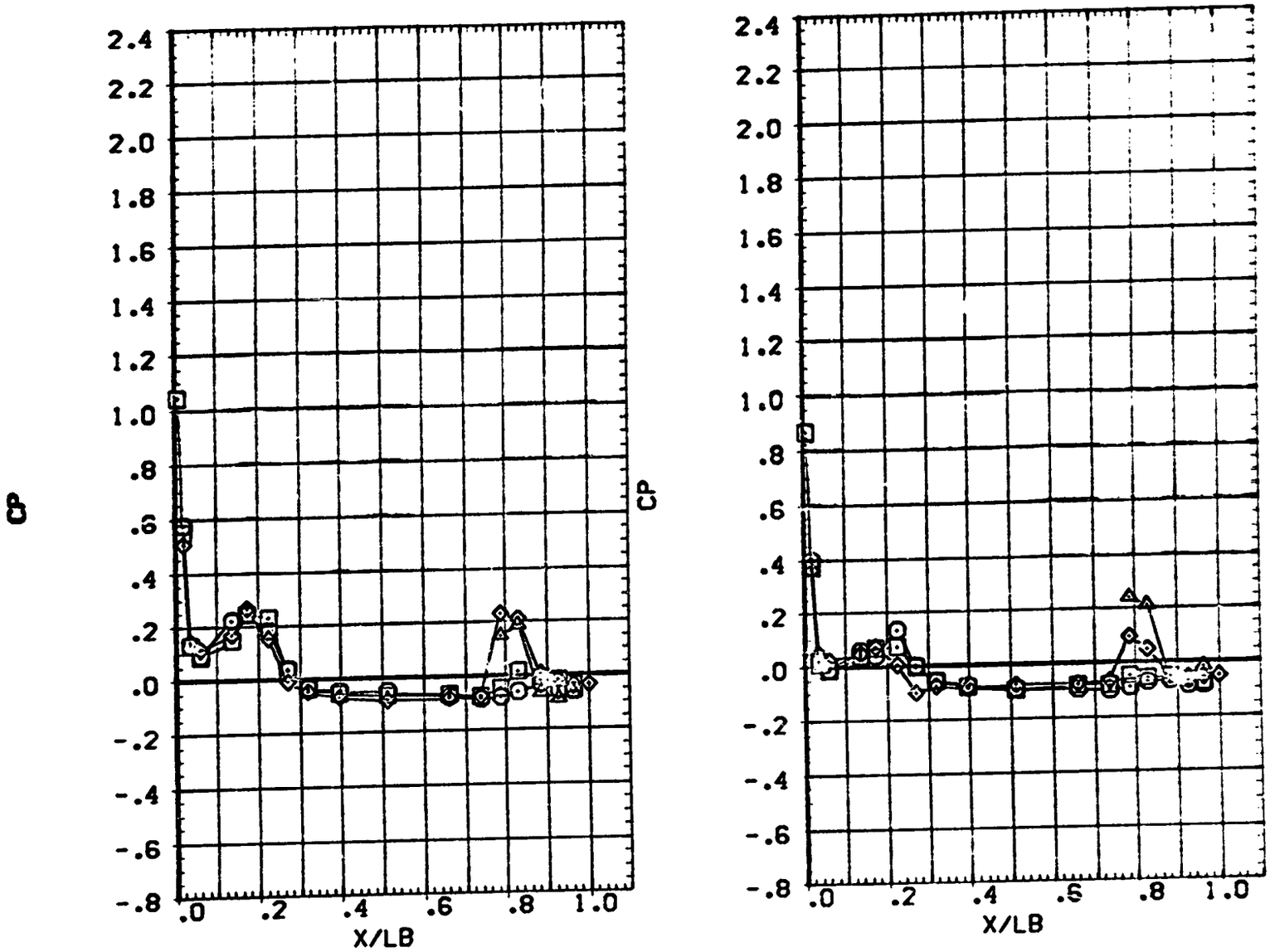
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 ;A9 C2A + S3 + '9 ORBITER FUSELAGE (RBNB08)

SYMBOL	RN:	BETAT	MACH
○	70.000	-4.190	2.498
□	90.000	2.170	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	4.000	SB:LC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



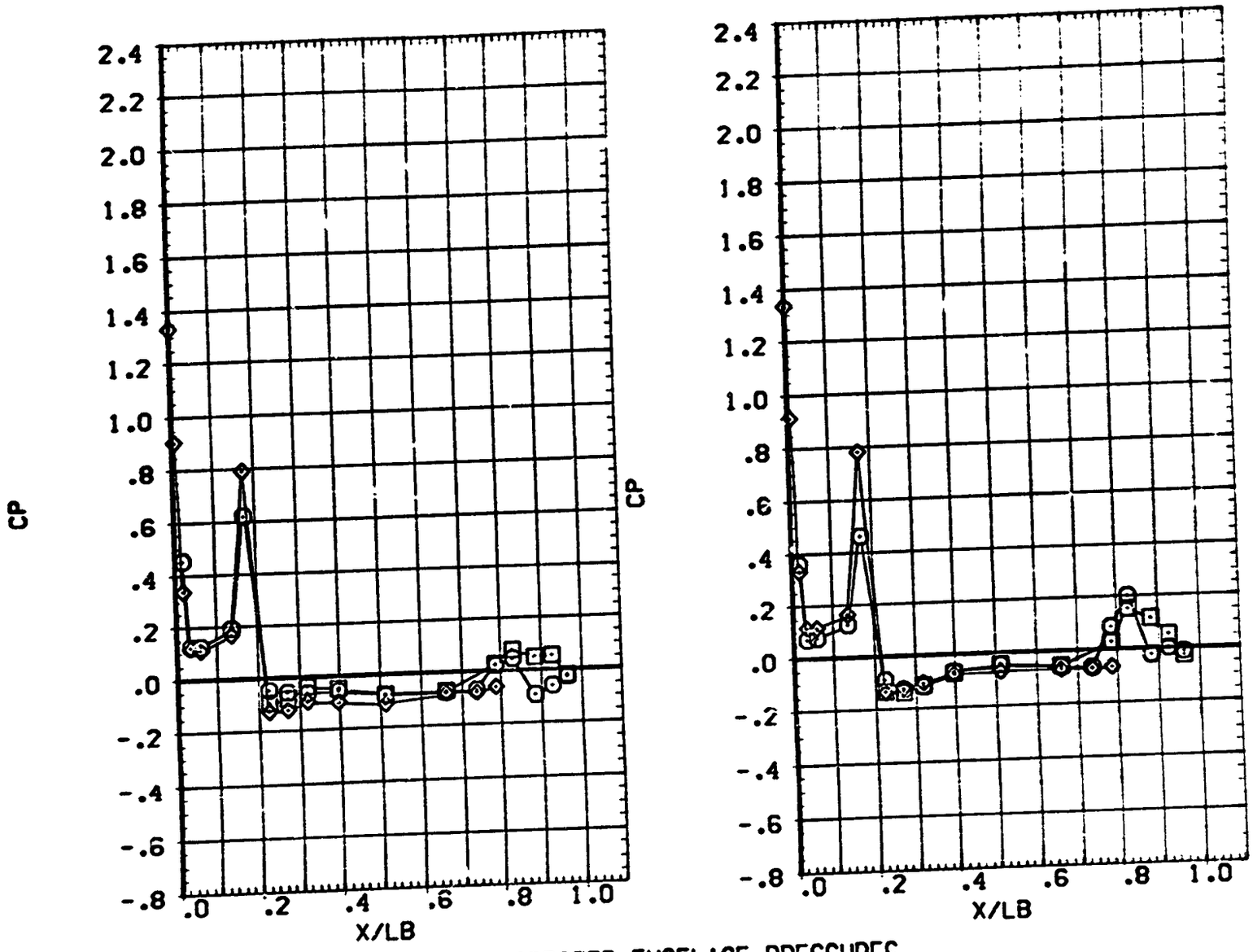
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBNBC8)

SYMBOL	PHI	BETAT	MACH
○	50.000	-4.190	2.498
□	65.000	2.170	
◇	80.000		

PARAMETRIC VALUES

ALPHAT	4.000	SBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



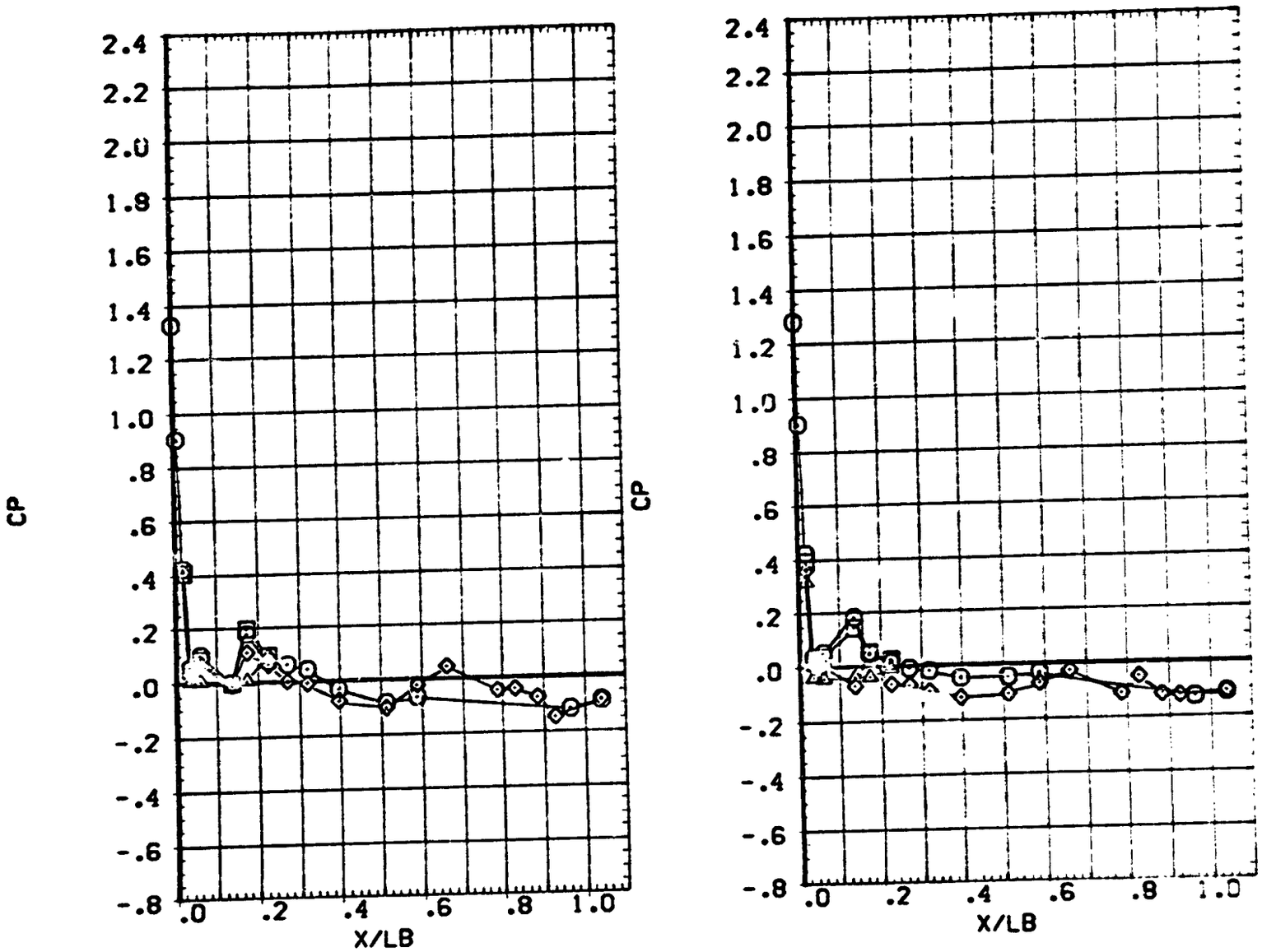
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNBOB)

SYMBOL	PHI	BETAT	MACH
○	.000	4.300	2.498
□	20.000	8.550	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	4.000	SPOINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



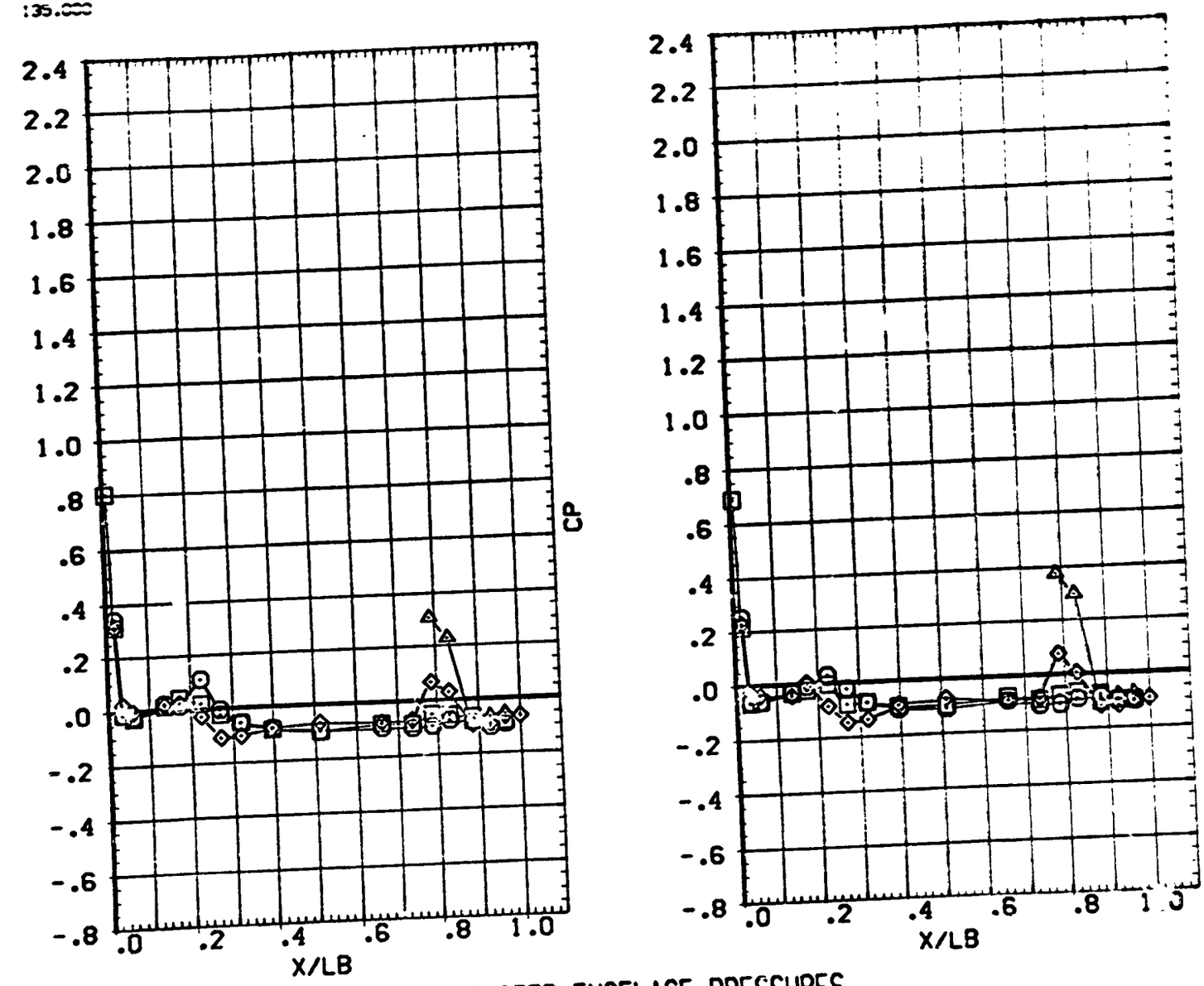
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBN3O8)

SYMBOL	PHI	BETAT	MACH
○	70.0000	4.300	2.498
□	90.0000	0.550	
◇	120.0000		
△	135.0000		

PARAMETRIC VALUES

ALPHAT	4.0000	ORBINC	.5000
RUDDER	.0000	ELEVON	.0000
RUDFLR	.0000		



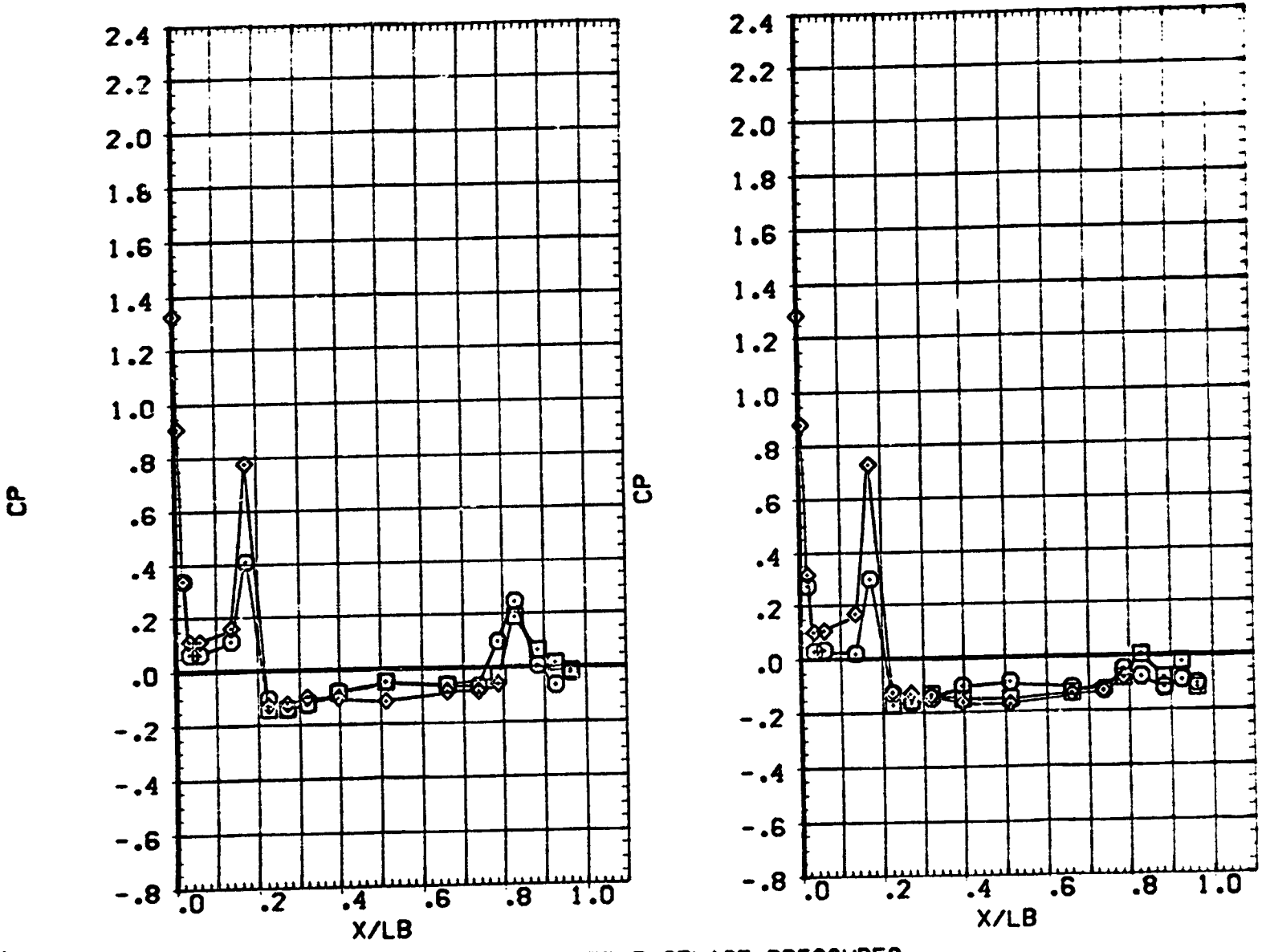
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBNB08)

SYMBOL	PHI	BETAT	MACH
○	50.000	4.300	2.498
□	65.000	8.550	
◇	80.000		

PARAMETRIC VALUES

ALPHAT	4.000	ORBVC	.550
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



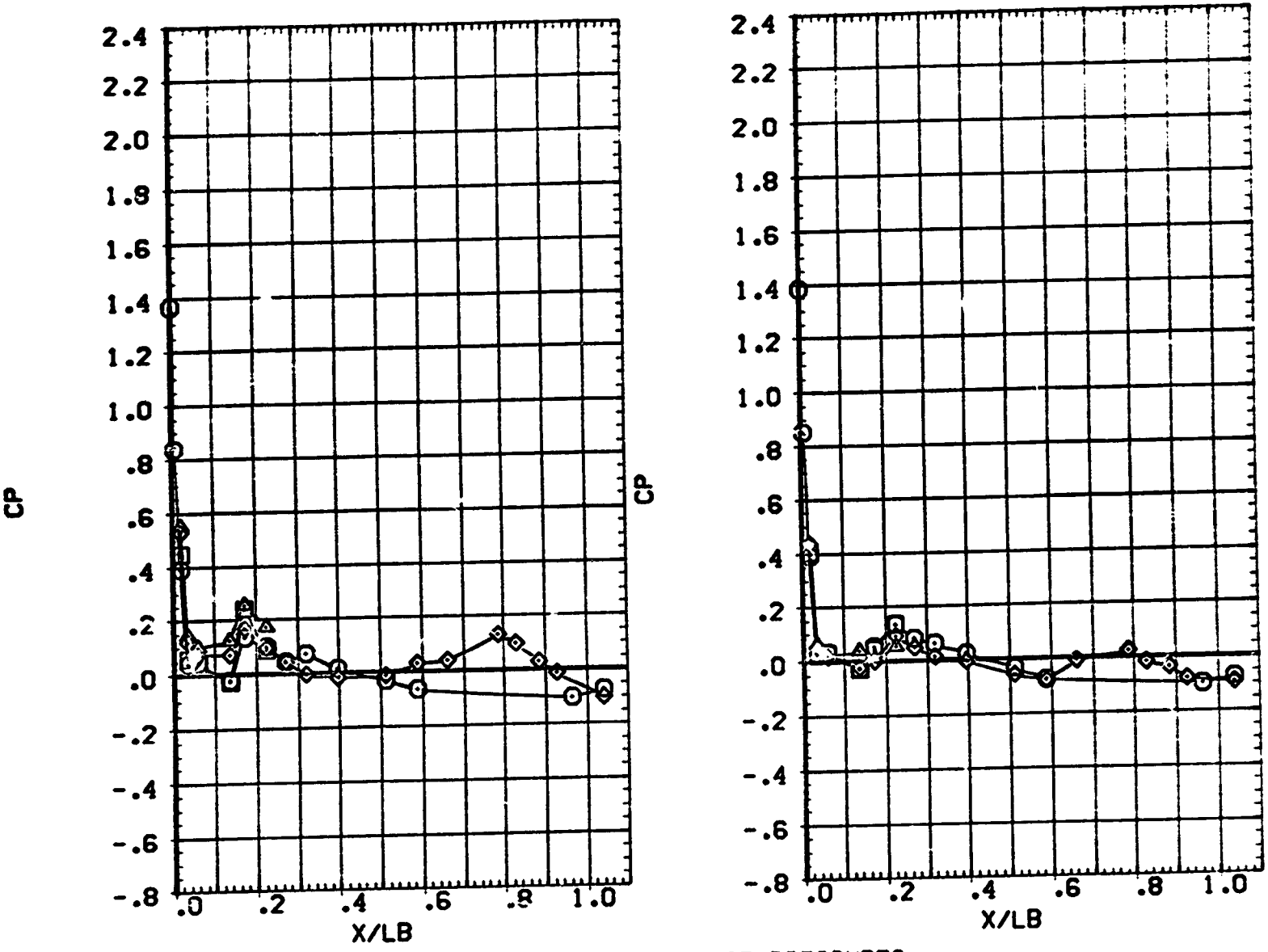
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AYES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB08)

SYMBOL	PHI	BETAT	MACH
□	.000	-4.260	2.999
○	20.000	2.210	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	4.000	SPOINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



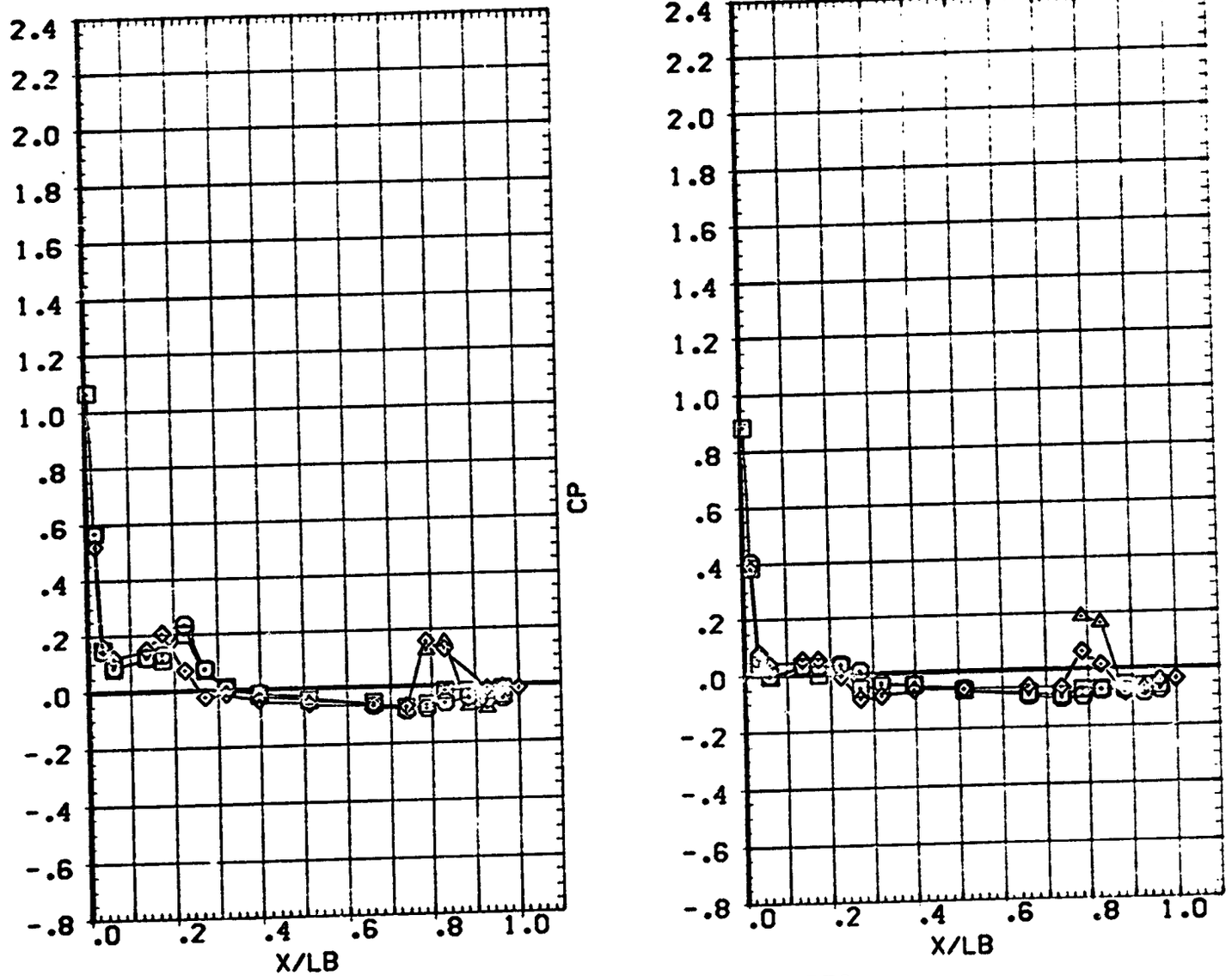
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RB\BOB)

SYMBOL	PHI	BETAT	MACH
○	70.000	-4.760	2.999
□	90.000	2.210	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROLLER	.000		



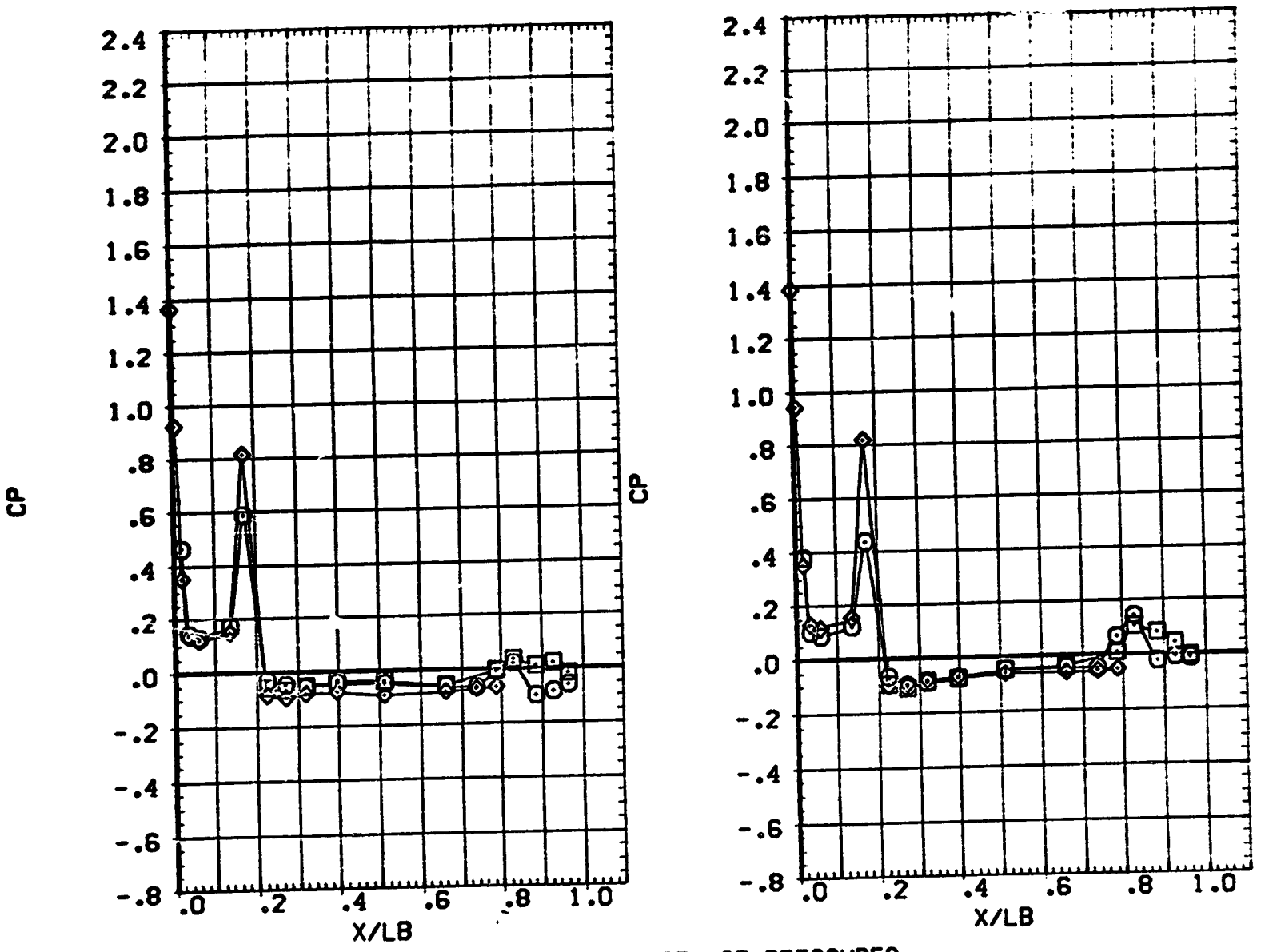
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 C2A - S3 - T9 ORBITER FUSELAGE (RBNBC8)

SYMBOL	PHI	BETA	MACH
○	150.000	-4.260	2.999
□	165.000	2.210	
◇	180.000		

PARAMETRIC VALUES

ALPHA	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



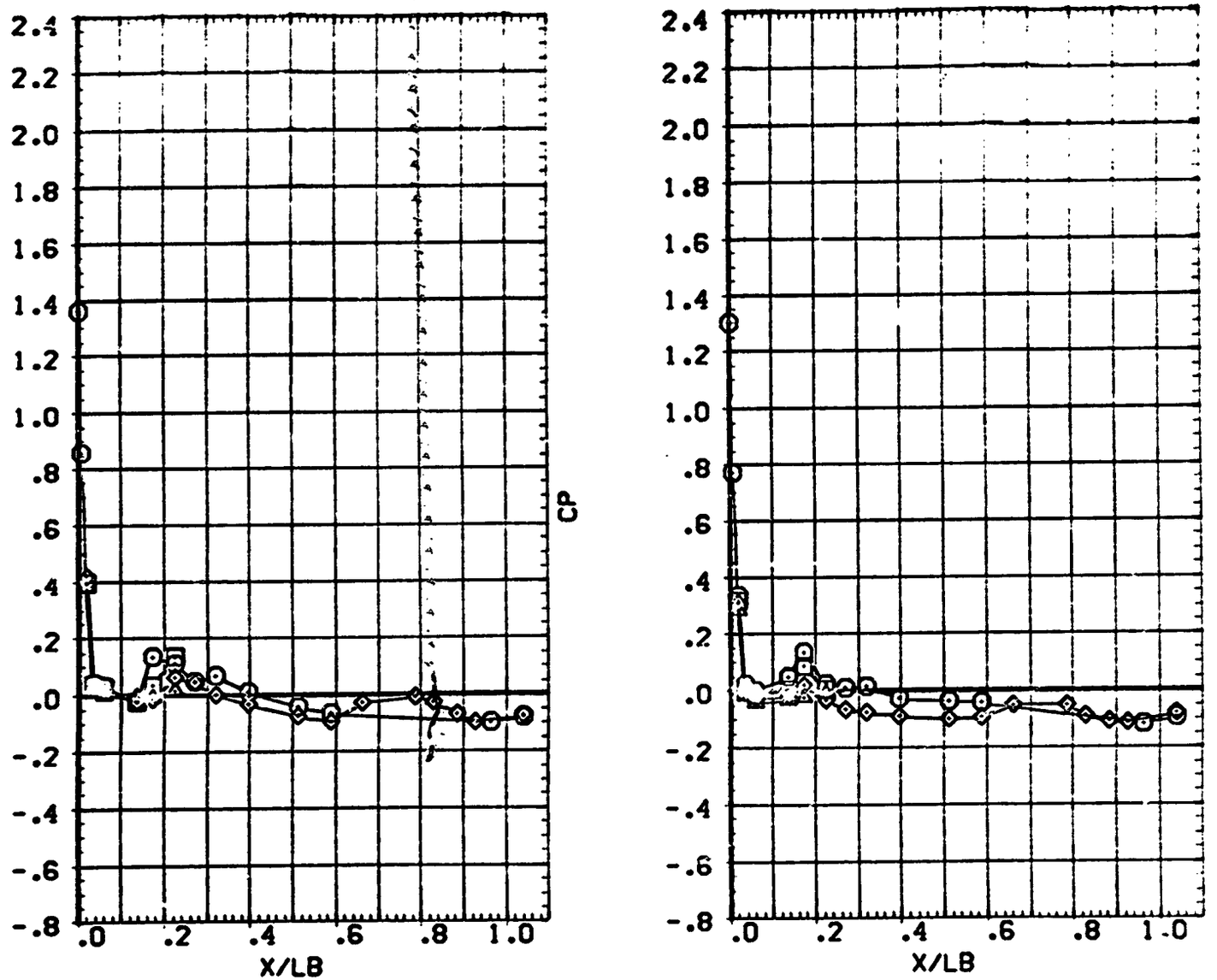
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBNBC8)

SYMBOL	PHI	BETAT	MACH
○	.000	4.370	2.999
□	20.000	8.700	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



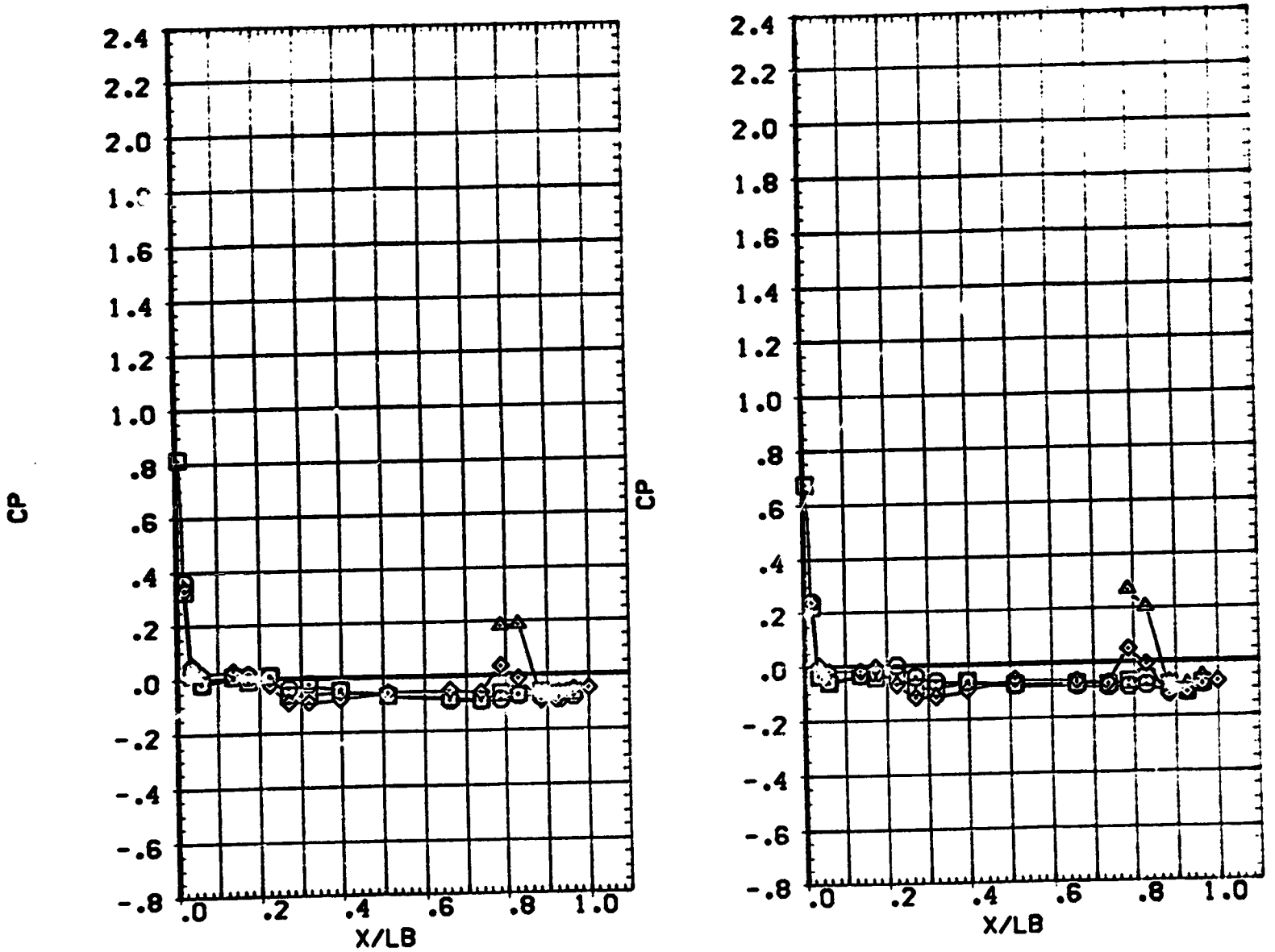
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNBC8)

SYMBOL	PHI	BETA	MACH
○	70.000	4.373	2.999
□	90.000	8.722	
◇	20.000		
△	35.000		

PARAMETRIC VALUES

ALPHAT	4.000	DBDYC	.500
RUDDER	.000	ELEVN	.000
RUDFLR	.000		



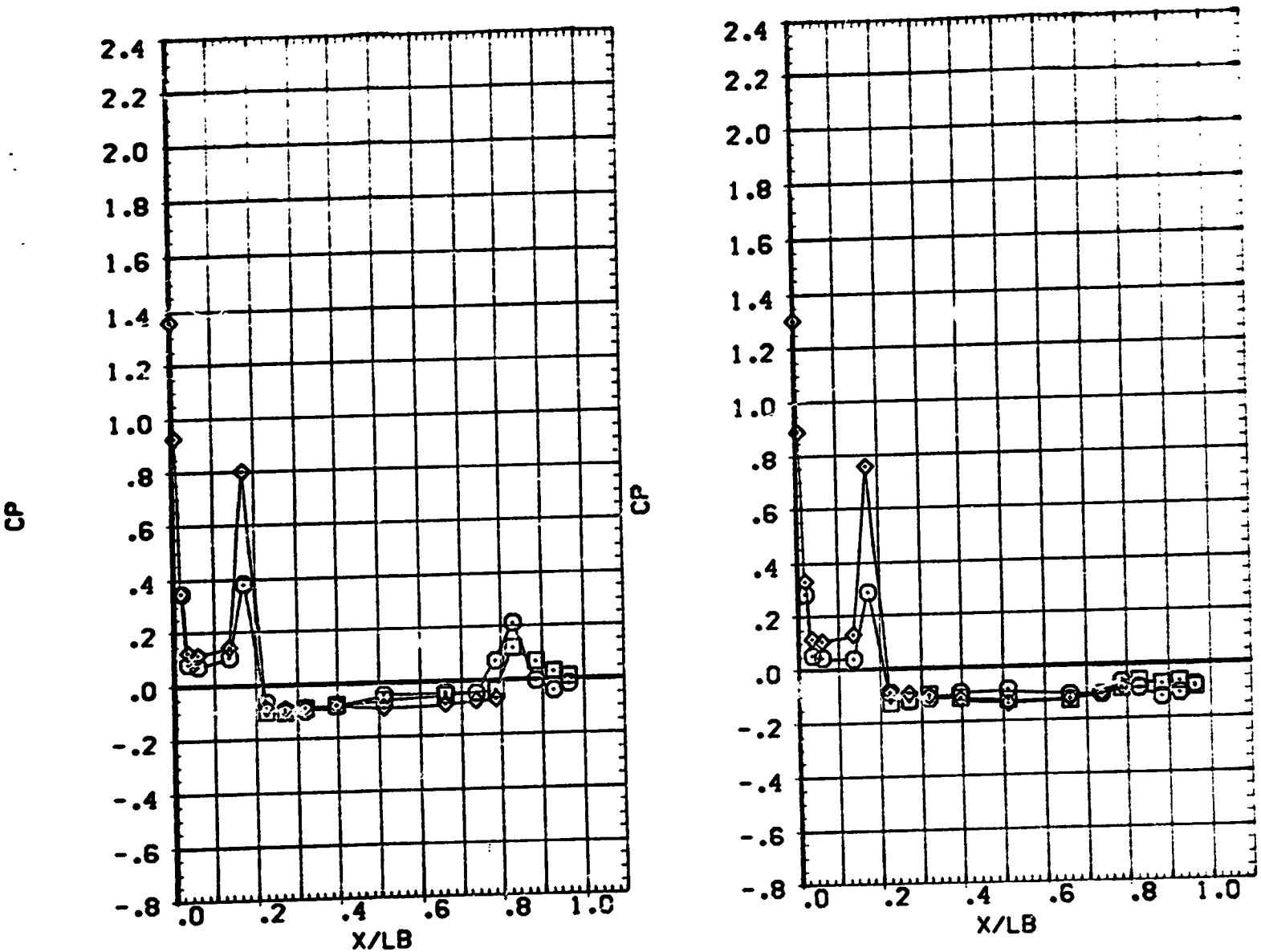
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNBOB)

SYMBOL	PHI	BETAT	MACH
○	150.000	4.370	2.999
◇	165.000	8.700	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	4.000	SPOILR	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



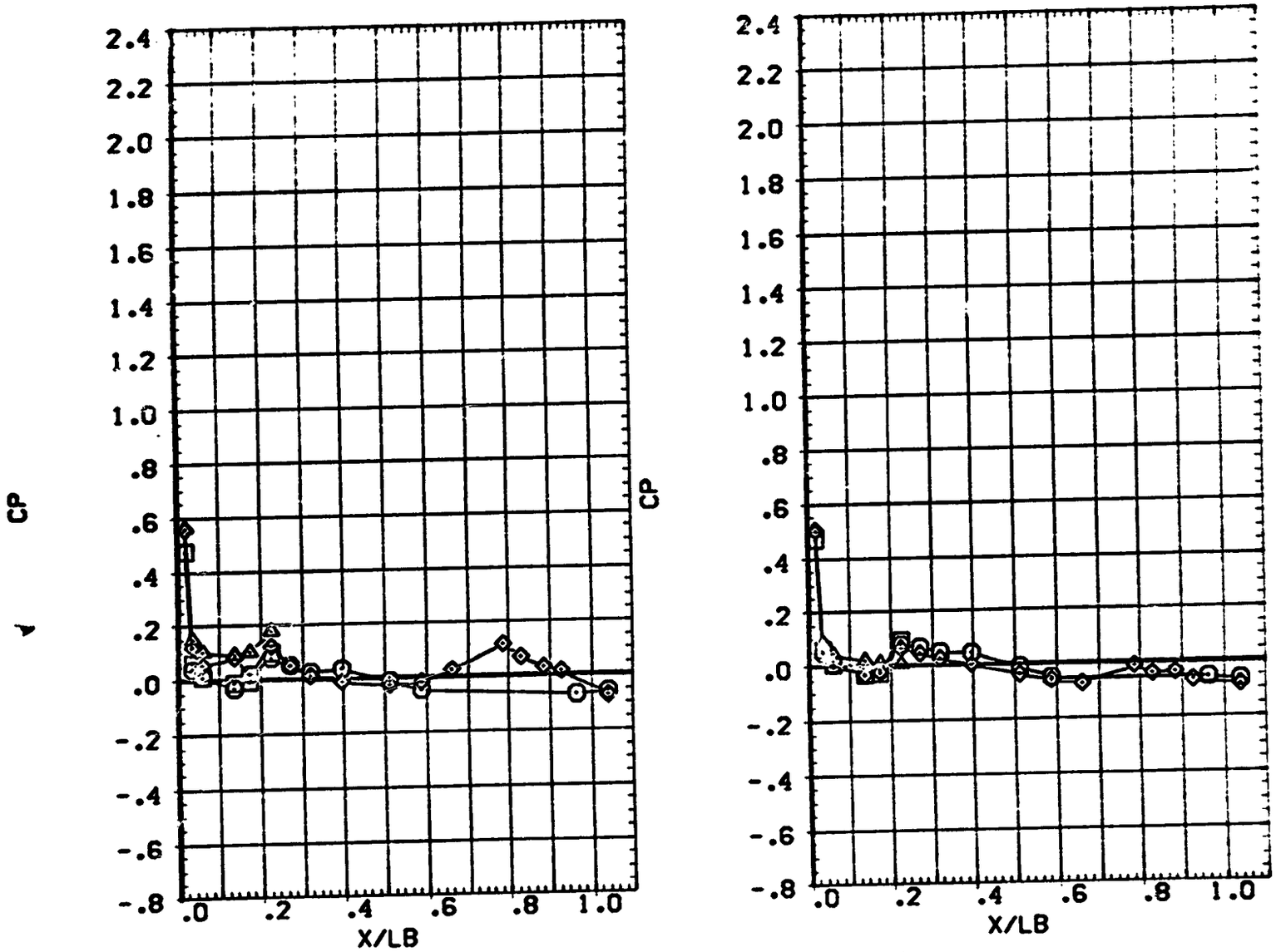
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 (A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB08)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.330	3.502
◇	20.000	2.260	
△	40.000		
	55.000		

PARAMETRIC VALUES

ALPHAT	4.000	SPEC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



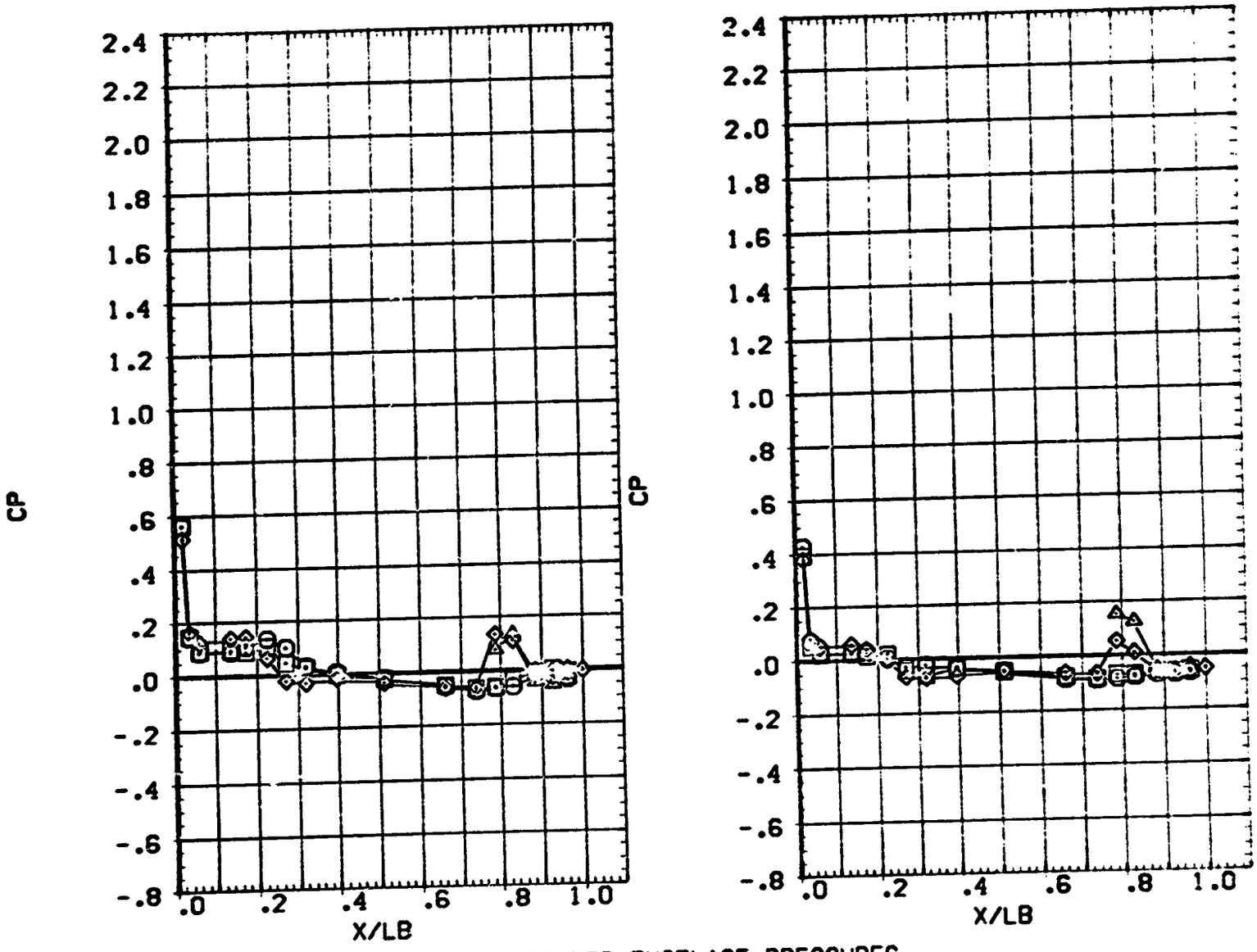
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 IA8 C2A + S3 + T9 ORBITER FUSELAGE (RB\308)

SYMBOL	PHI	BETAT	MACH
○	70.000	-4.330	3.502
□	90.000	2.260	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	4.000	DBINC	.500
RUDDER	.000	ELEVON	.000
BODFLR	.000		



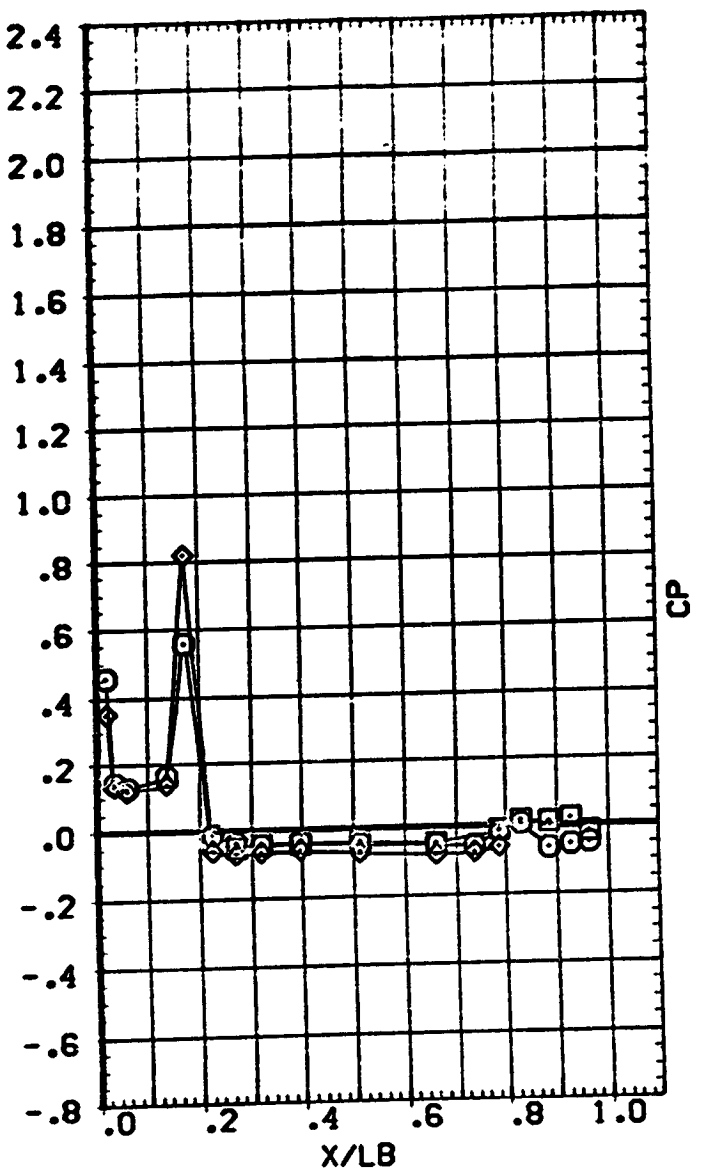
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

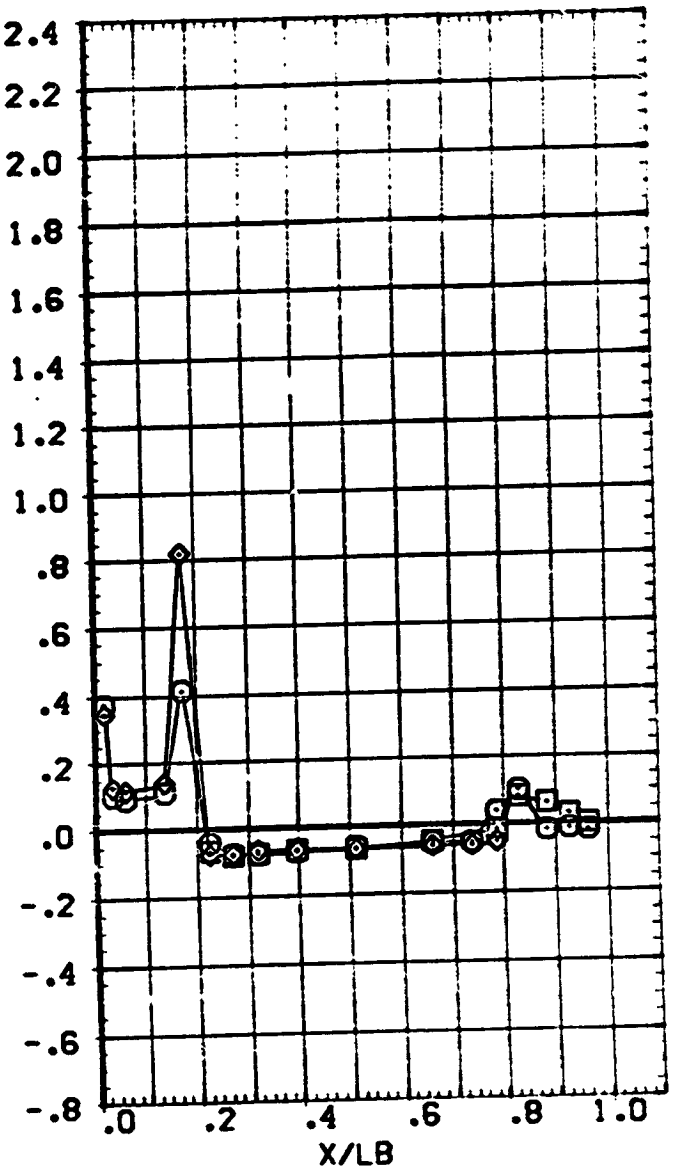
AMES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBI\BOB)

SYMBOL	PHI	BETAT	MACH
○	50.000	-4.330	3.502
□	65.000	2.260	
◇	80.000		

PARAMETRIC VALUES

ALPHA	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROLLER	.000		





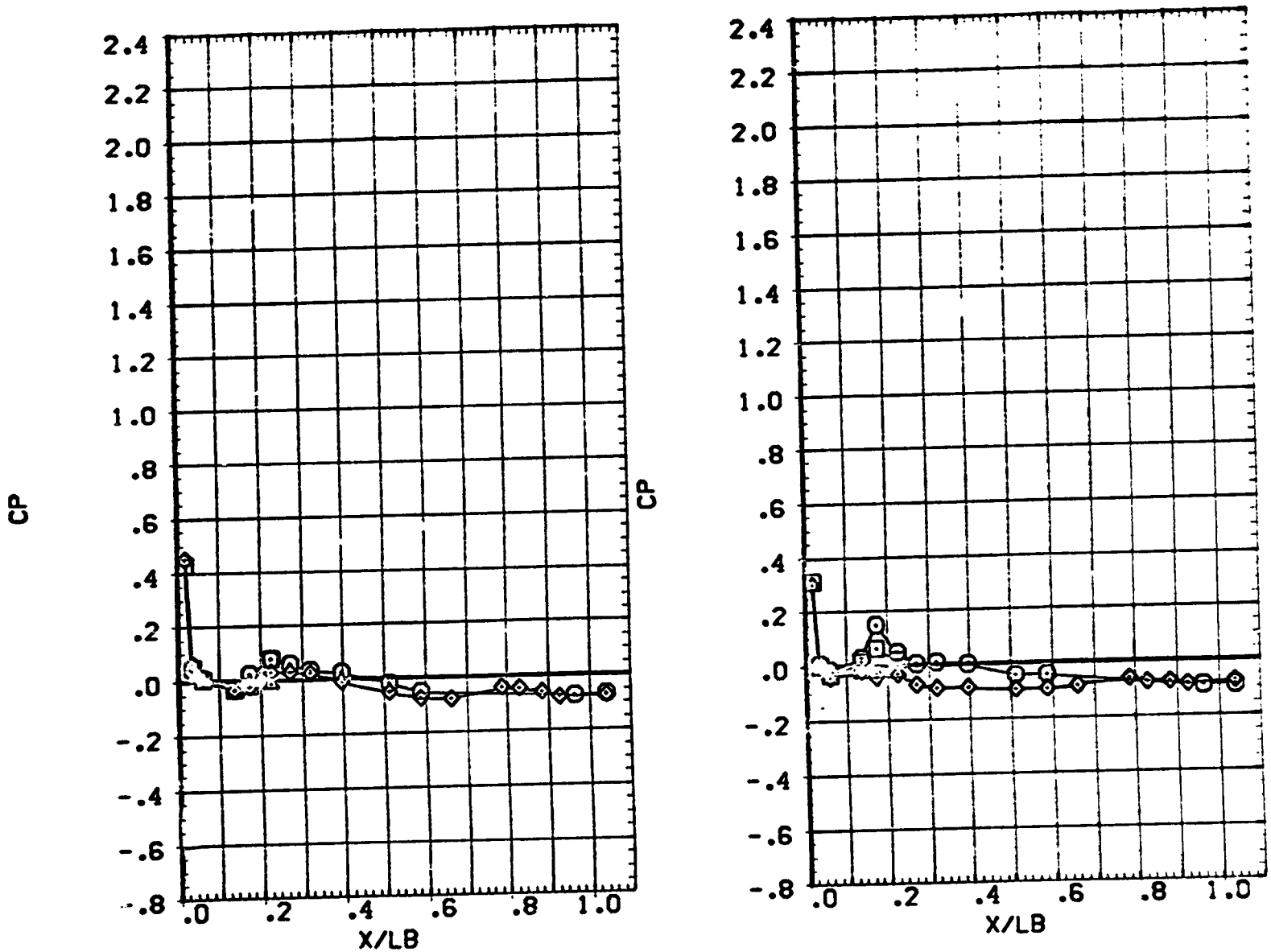
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 02A - S3 - T9 ORBITER FUSELAGE (RB\BOB)

SYMBOL	PHI	BETAT	MACH
○	.000	4.160	3.502
□	20.000	8.860	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHA	4.000	ORB\C	.500
RUDDER	.000	ELEVON	.000
ROLL_R	.000		



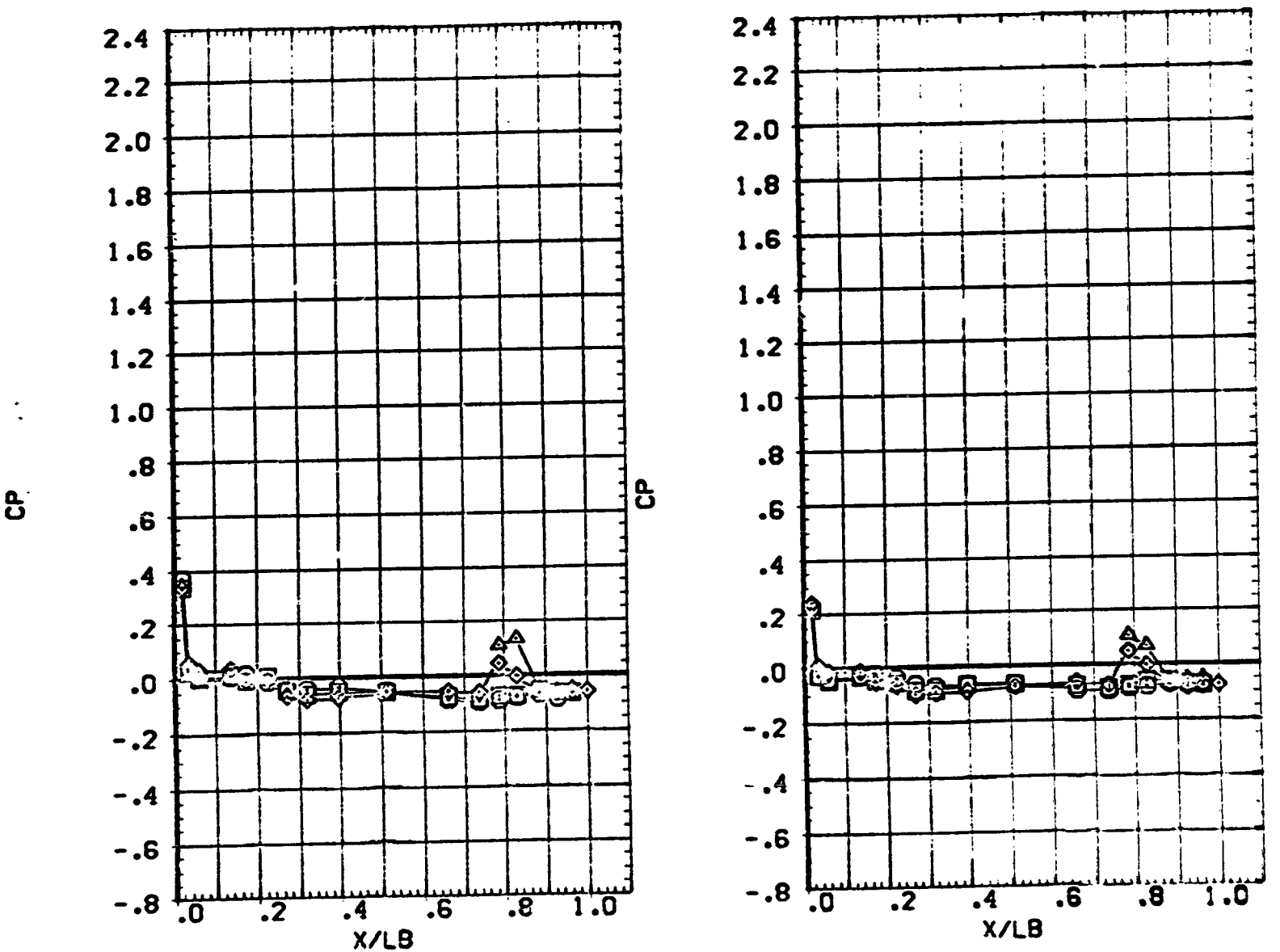
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 02A - S3 - T9 ORBITER FUSELAGE (RB\BC8)

SYMBOL	PHI	BETAT	MACH
○	70.000	4.460	3.502
□	90.000	8.860	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



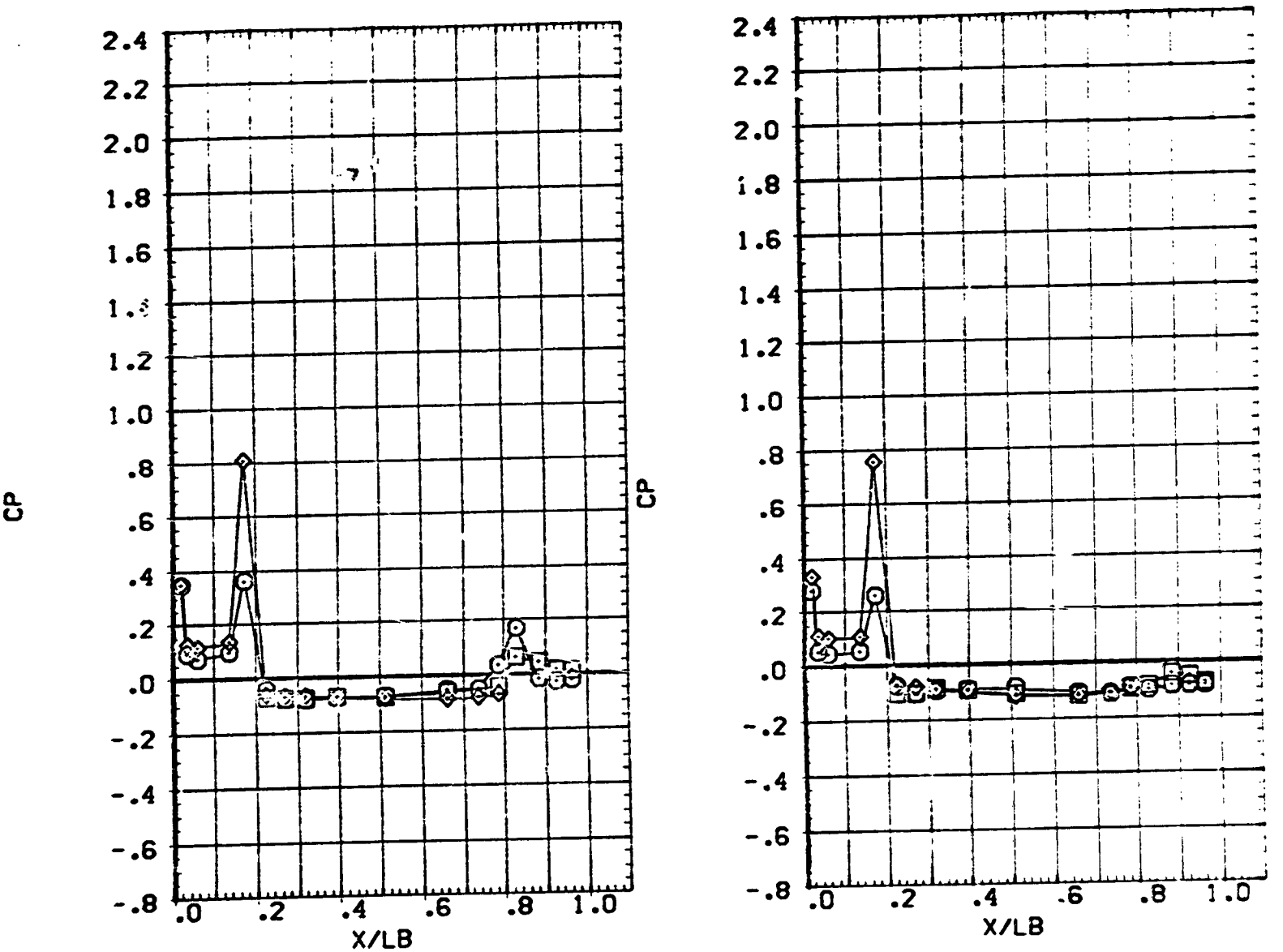
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNBOB)

SYMBOL	PHI	BETA	MACH
○	:50.000	4.460	3.502
□	:65.000	8.860	
◇	:80.000		

PARAMETRIC VALUES

ALPHAT	4.000	SPOILR	.500
RUDDER	.000	ELEVON	.000
RUDDLR	.000		



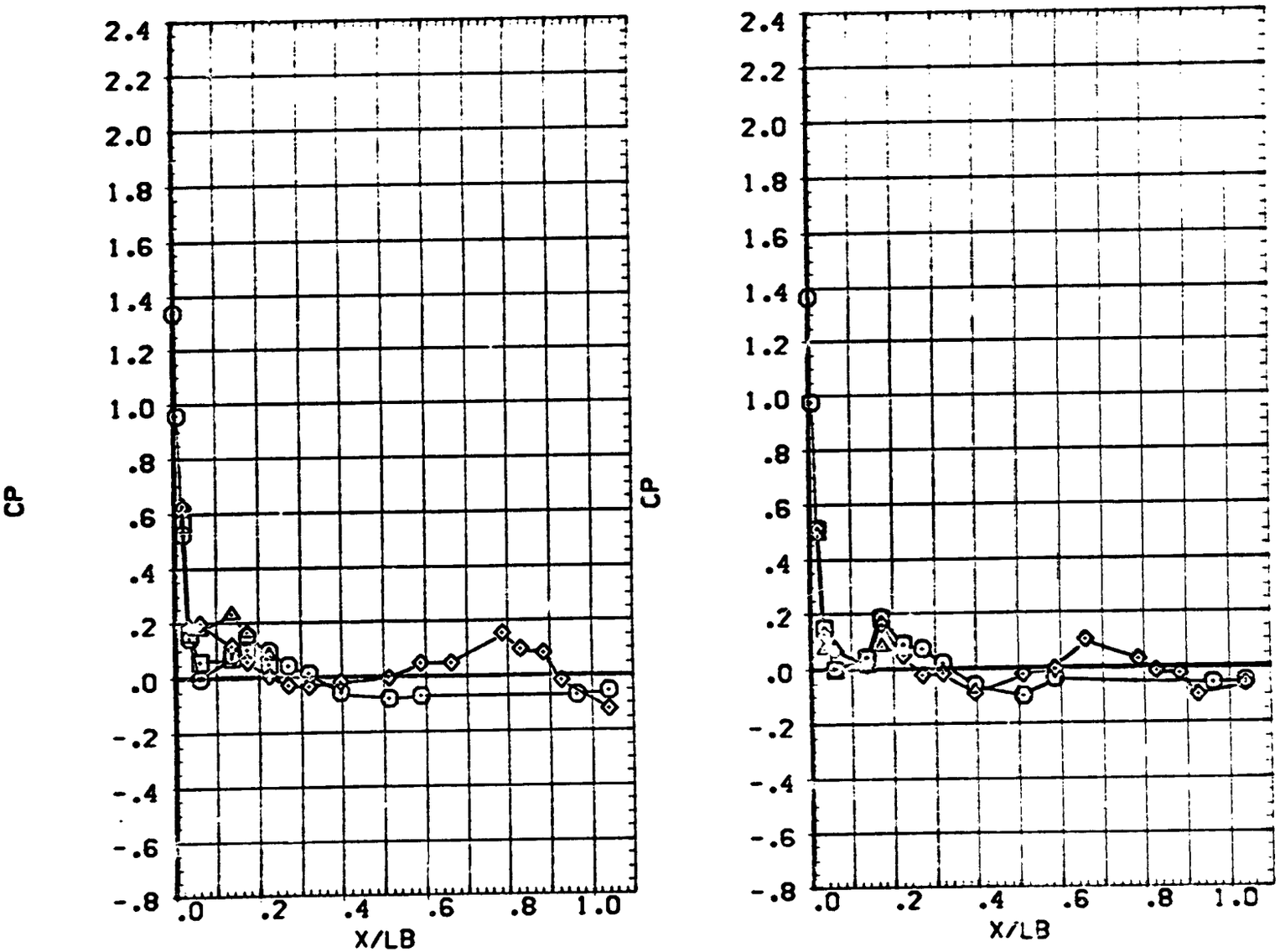
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA8 C2A + S3 + T9 ORBITER FUSELAGE (RBNBIC)

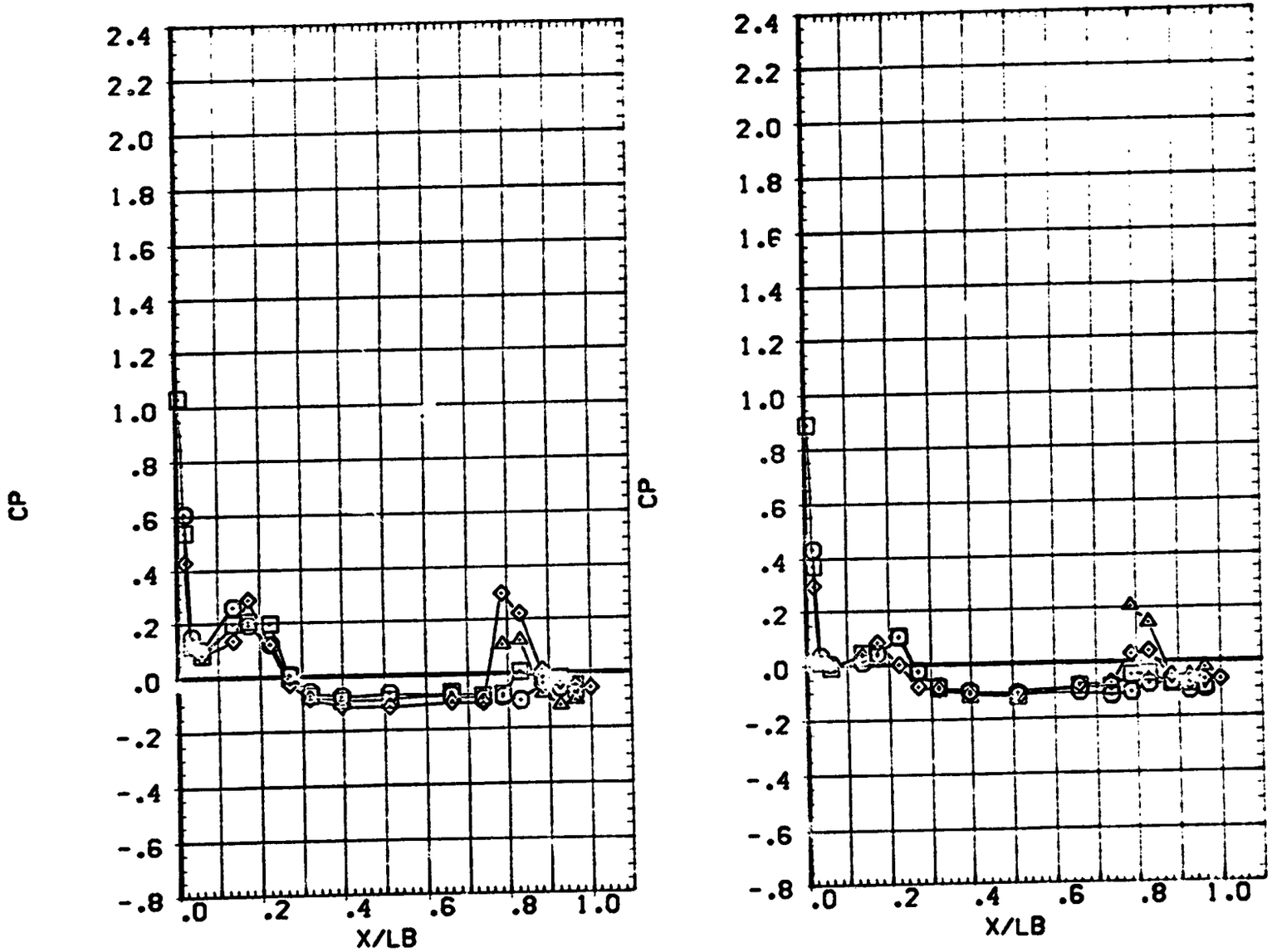
SYMBOL	PHI	BETAT	MACH
○	.000	-4.170	2.498
□	20.000	2.180	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	8.000	BODY	.000
RUDDER	.000	ELEVON	.000
FLAP	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



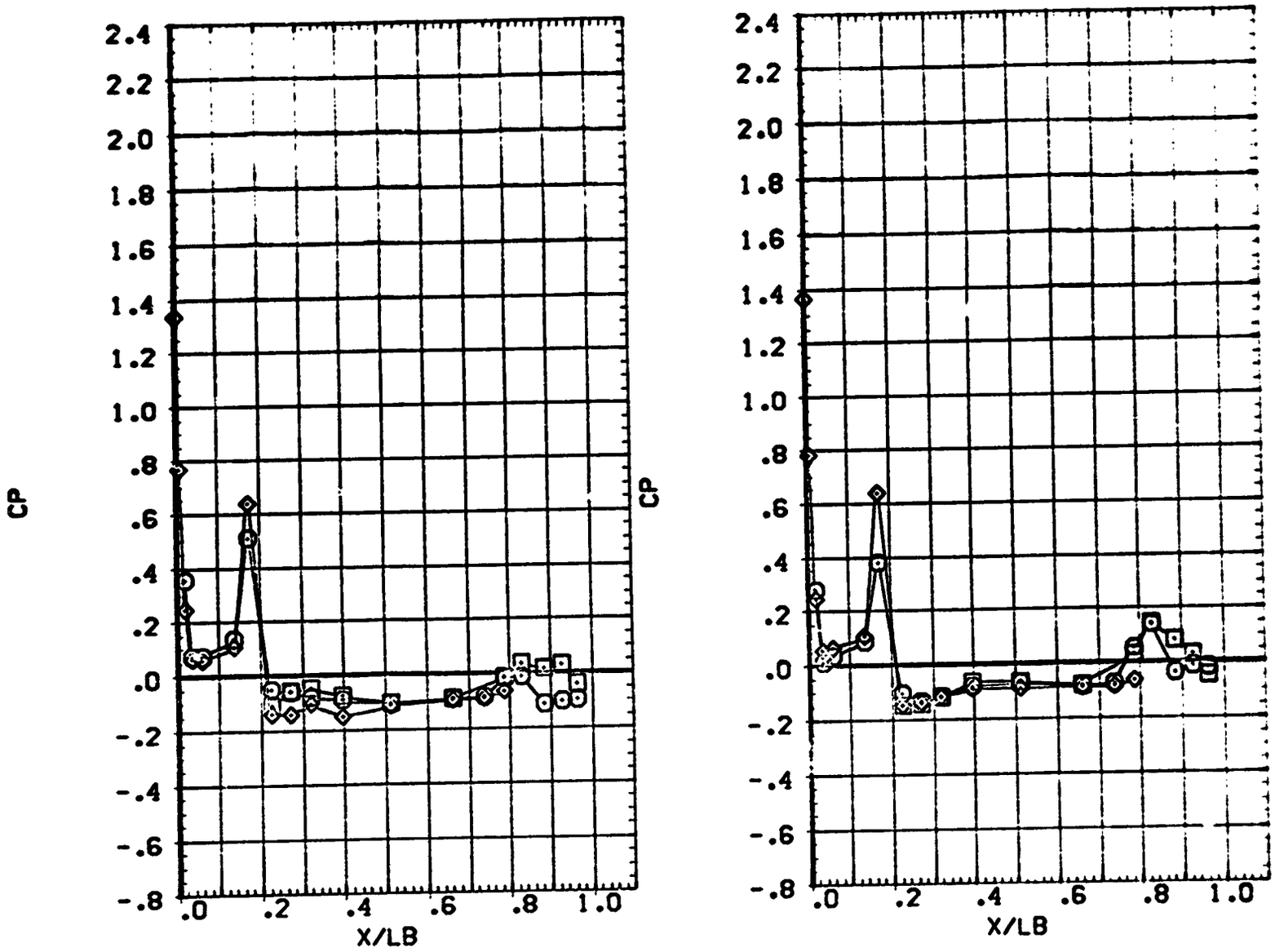
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNBIO)

SYMBOL	PHI	BETA	MACH
○	150.000	-4.170	2.498
□	165.000	2.180	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	8.000	SPEC	.500
RUDDER	.000	ELEVN	.000
RUDFLR	.000		

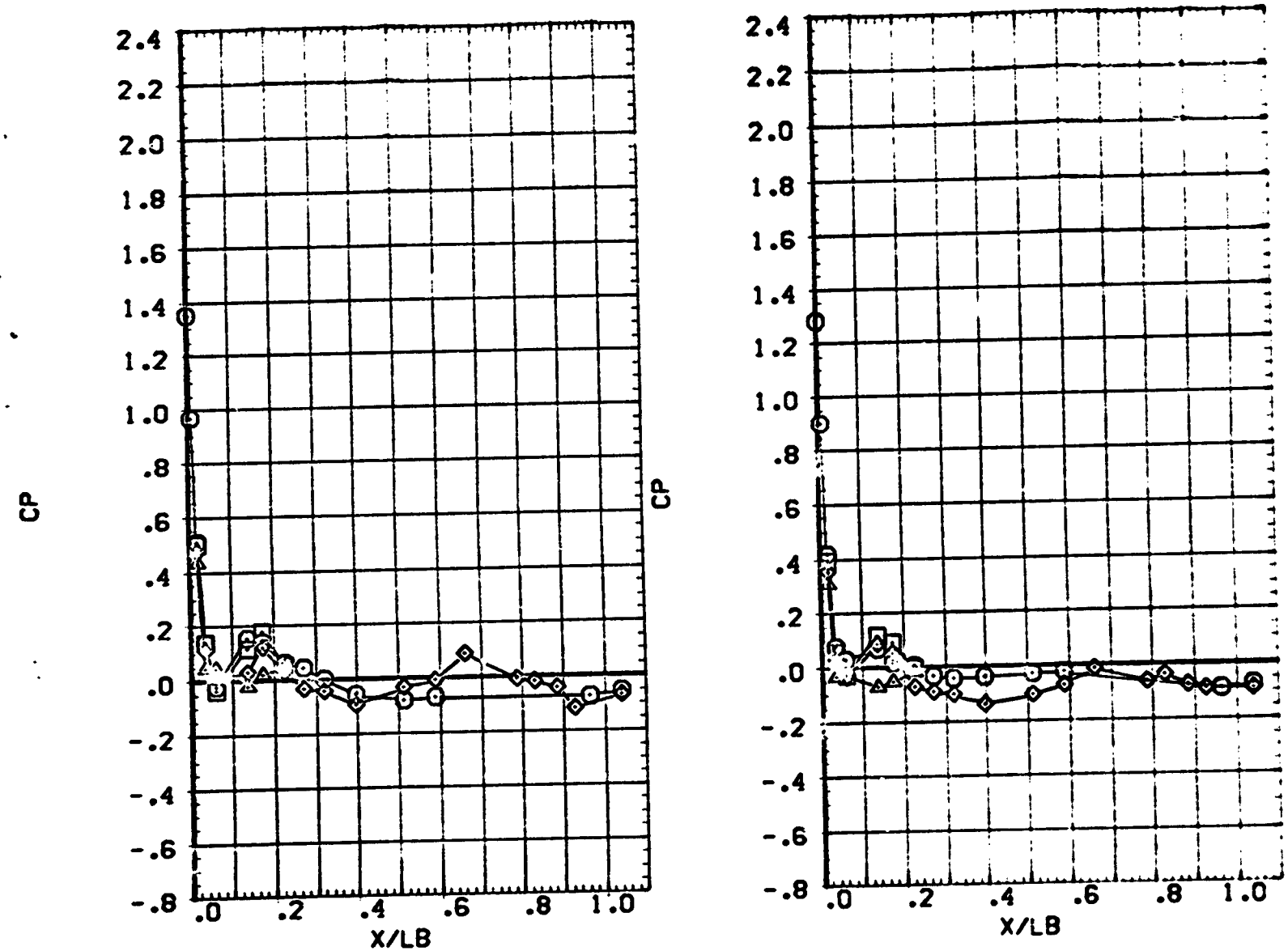


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

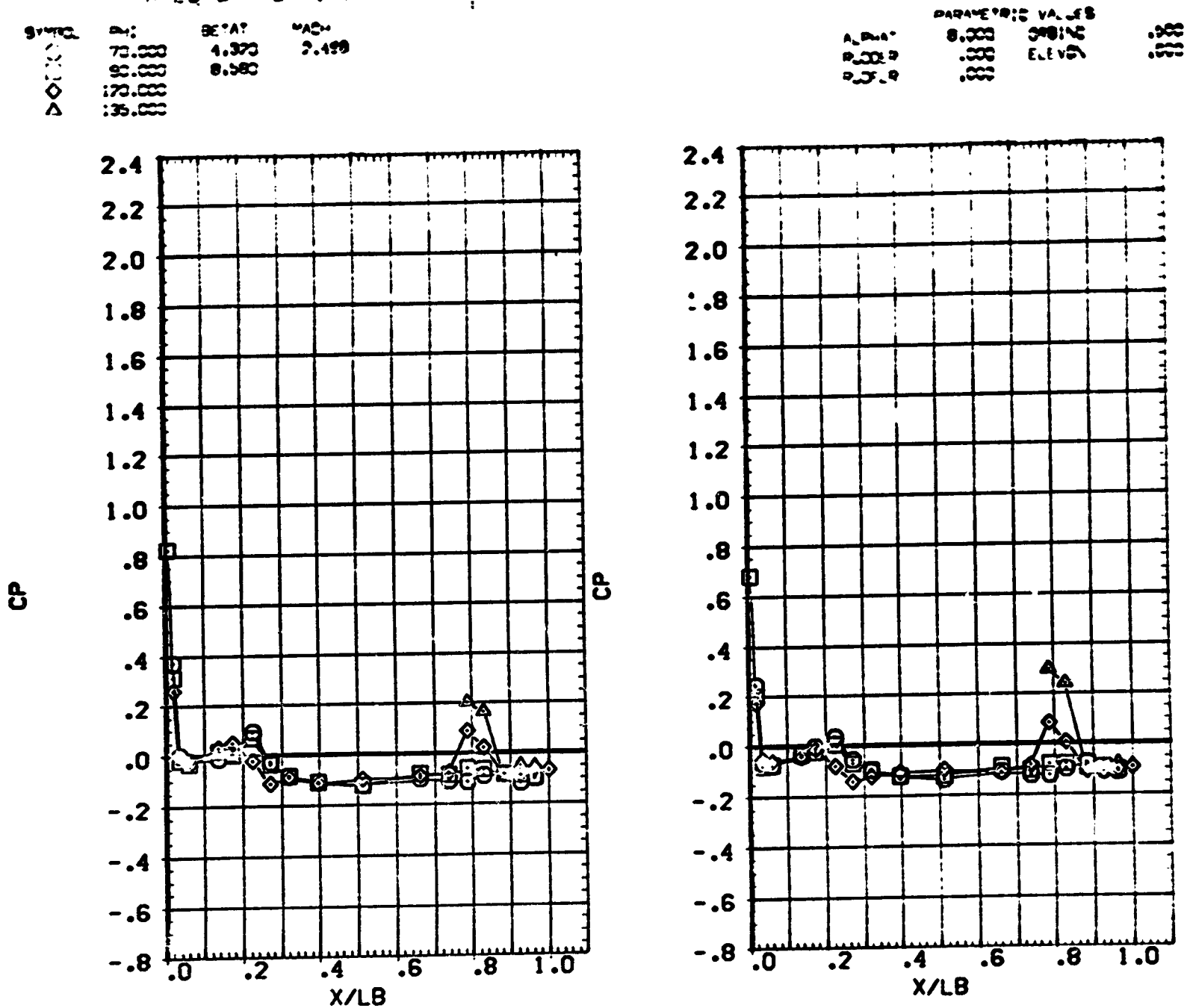
SYMBOL	PHI	BETAT	MACH
○	.000	4.300	2.499
□	20.000	8.580	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHA*	8.000	BODY C	.555
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

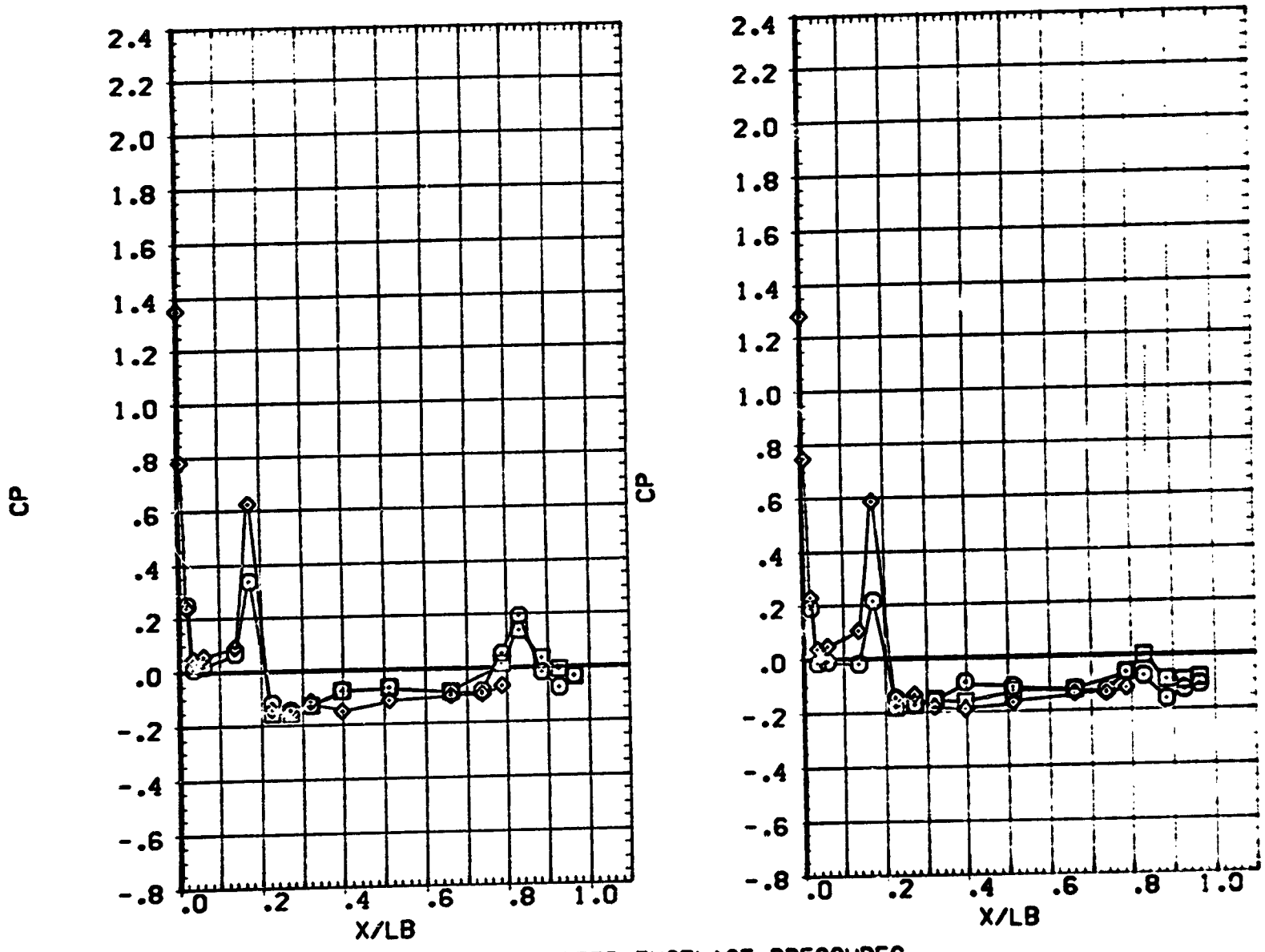


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL	PHI	BETAT	MACH
◇	50.000	4.320	2.498
	65.000	8.580	
	80.000		

PARAMETRIC VALUES

ALPHAT	8.000	SPOILR	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



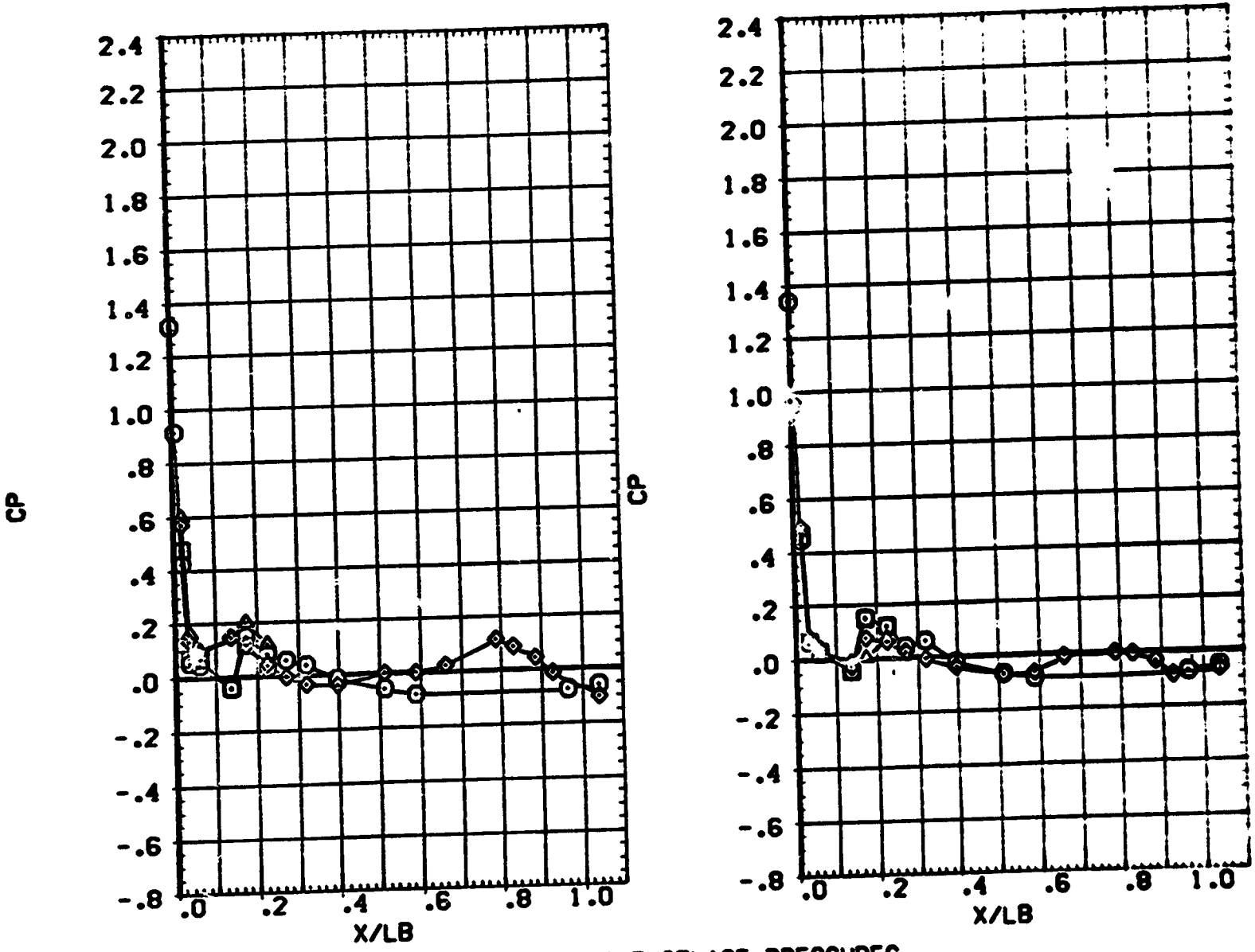
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBNBIC)

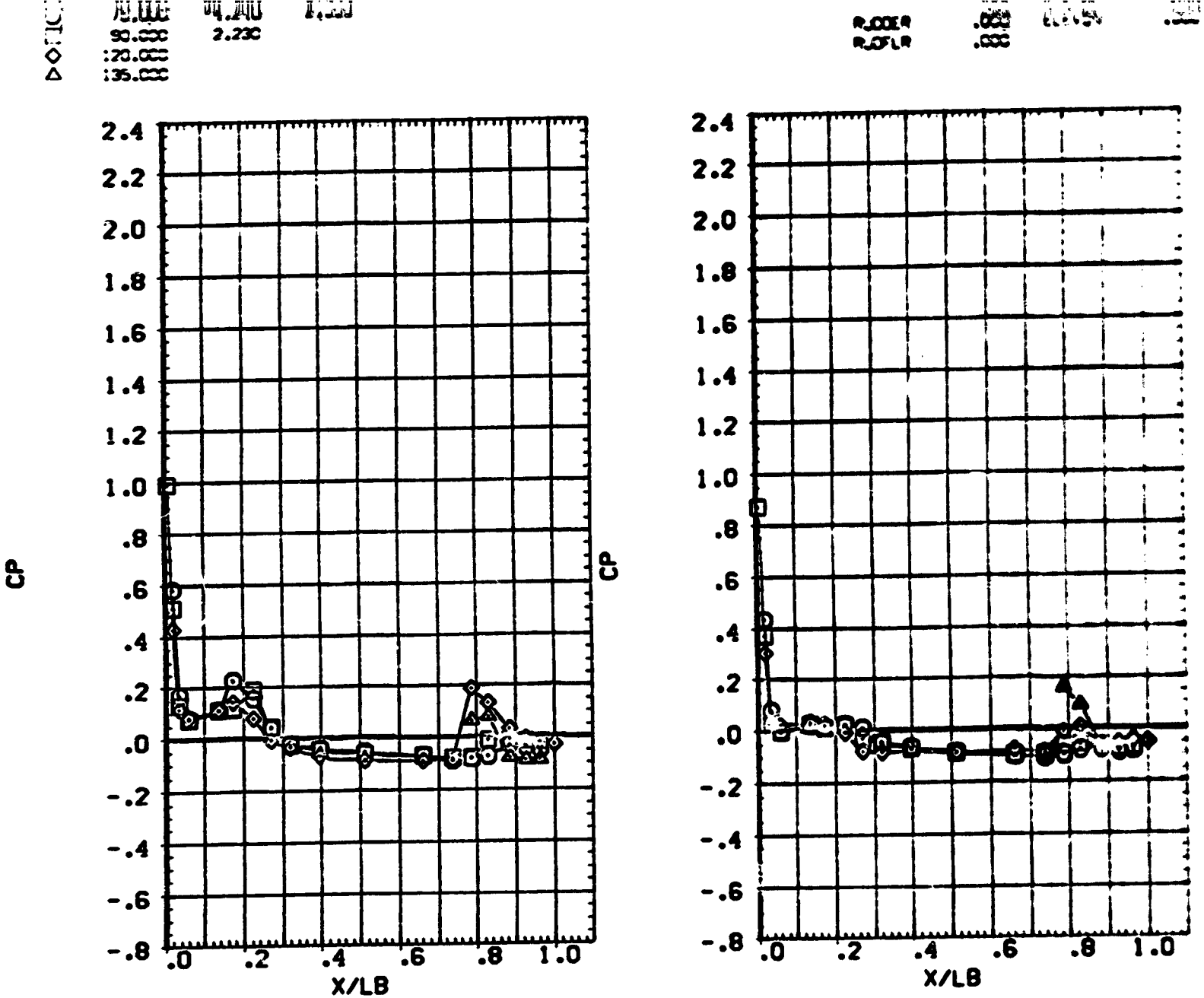
SYMBOL	PHI	BETAT	MACH
○	.000	-4.240	2.999
□	20.000	2.230	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

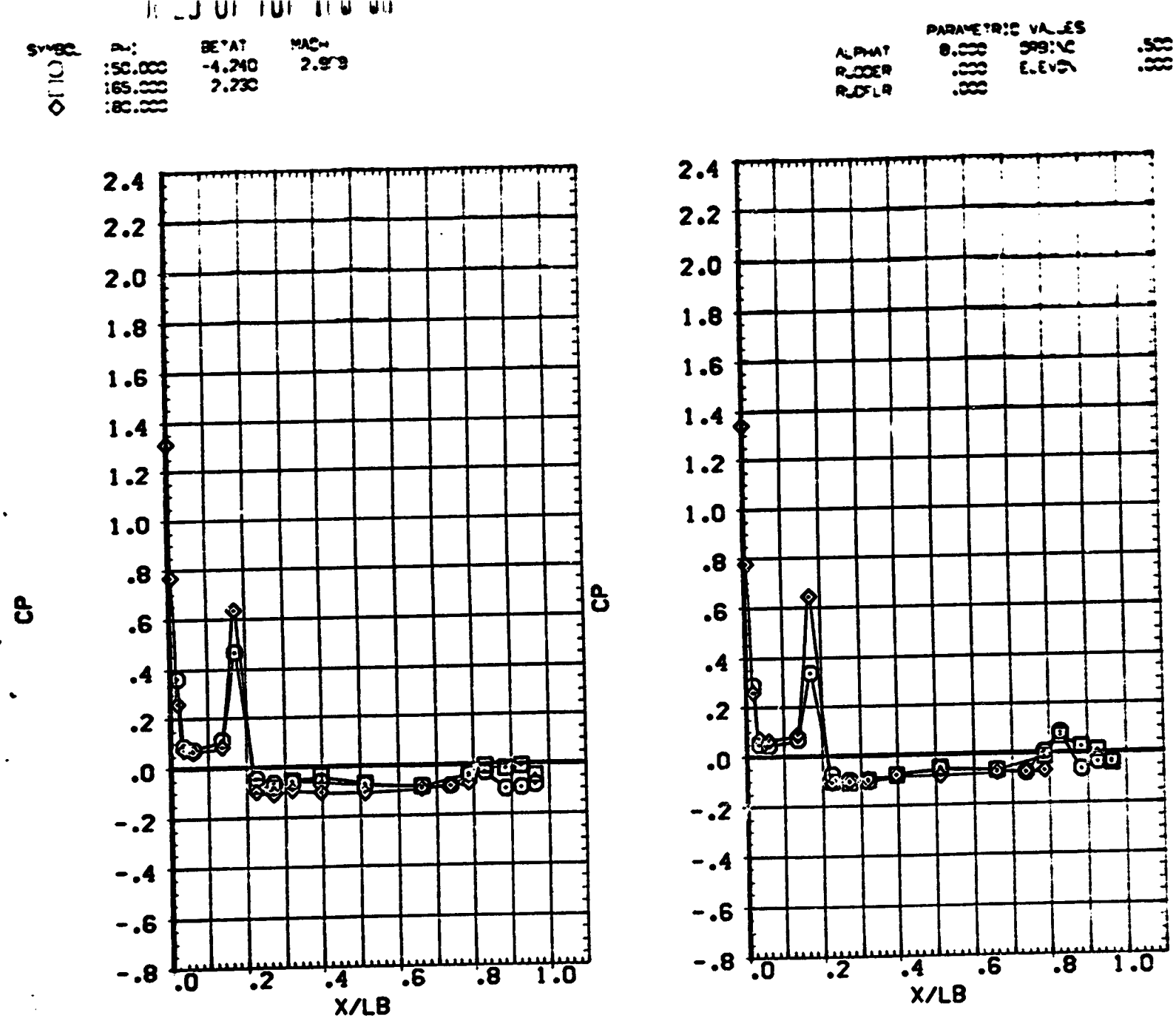
ALPHA	8.000	SPOINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



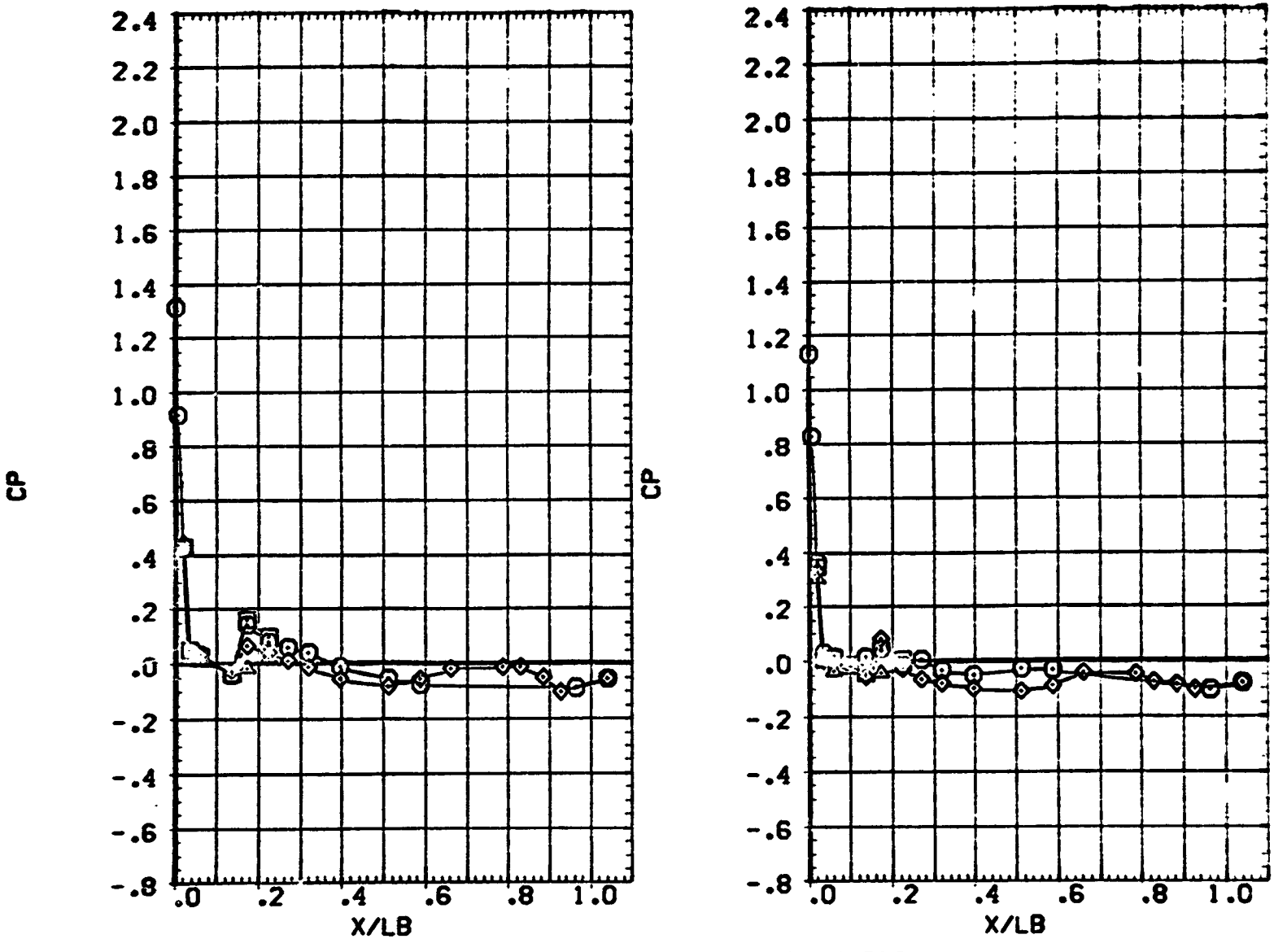
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AYES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB:C)

SYMBOL	PHI	BETAT	MACH
○	.0000	4.400	7.999
□	20.0000	8.740	
◇	40.0000		
△	55.0000		

PARAMETRIC VALUES

ALPHAT	8.0000	ORBINC	.500
RUDDER	.0000	ELEVON	.000
RUDFLR	.0000		



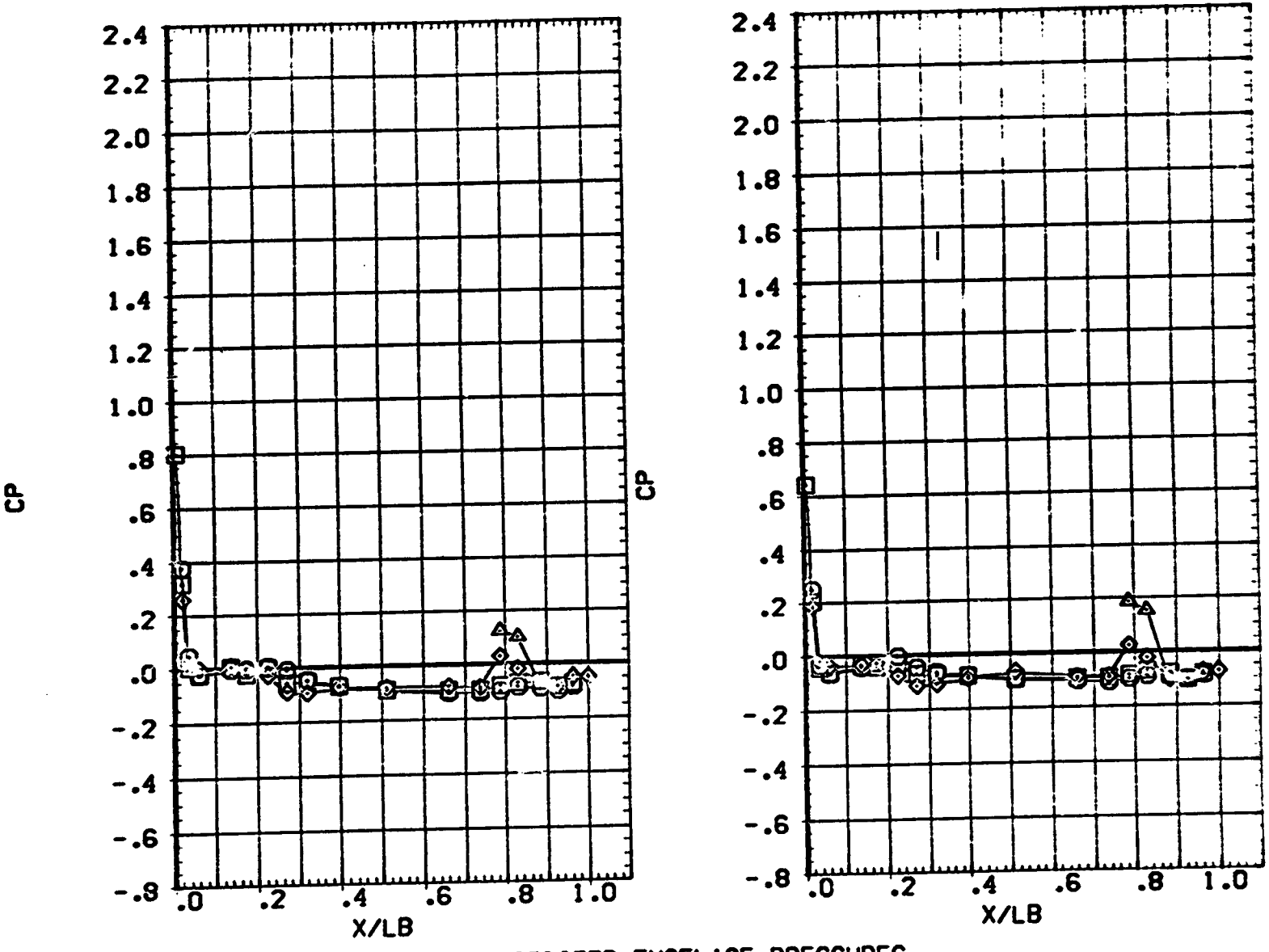
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB:C)

SYMBOL	PHI	BETAT	MACH
○	70.000	4.400	2.999
□	90.000	8.740	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHA	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



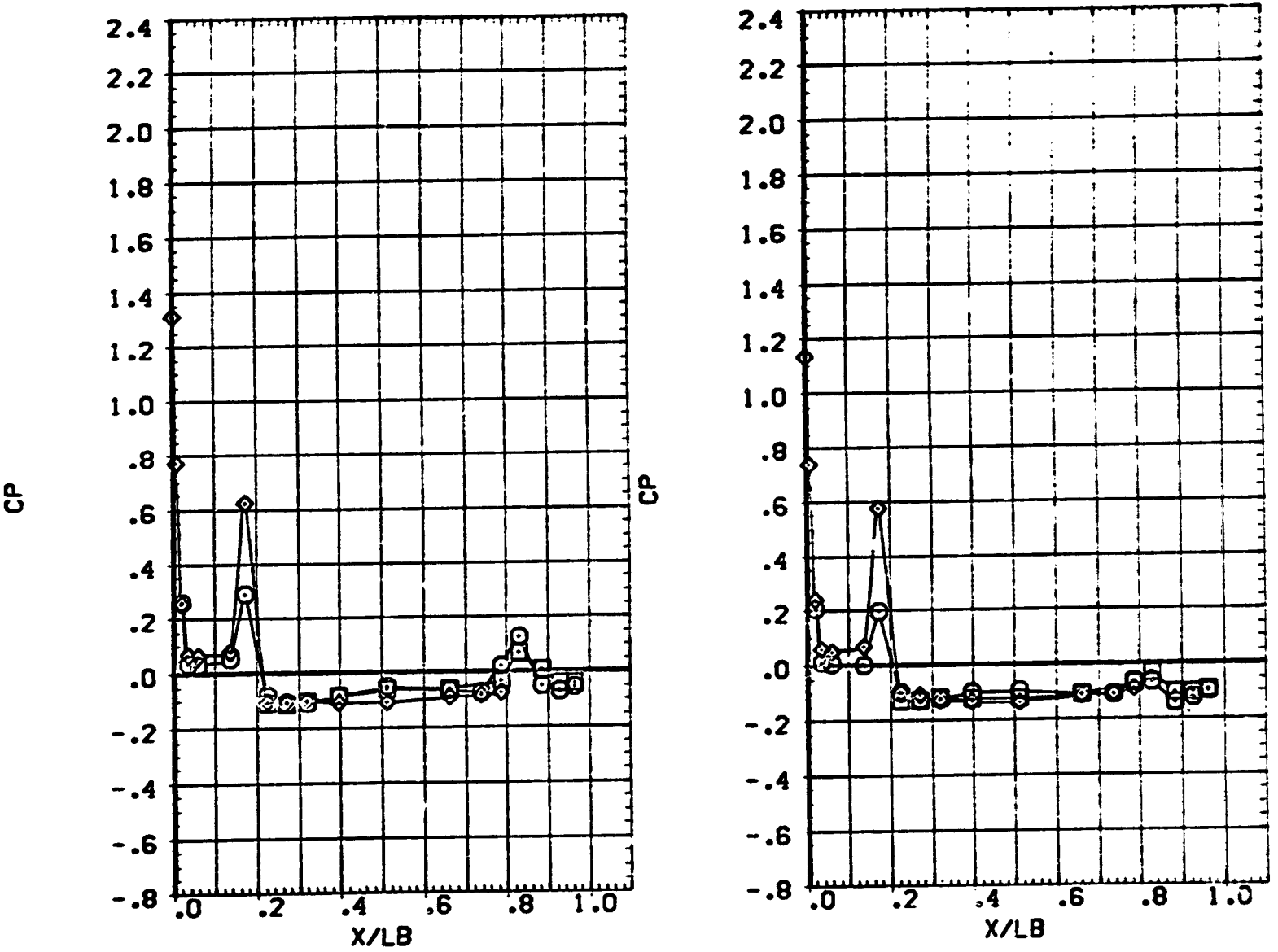
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB:C)

SYMBOL	PHI	BETAT	MACH
○	150.000	4.400	2.999
□	165.000	8.740	
◇	180.000		

PARAMETRIC VALUES

ALPHA	8.000	BODY	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



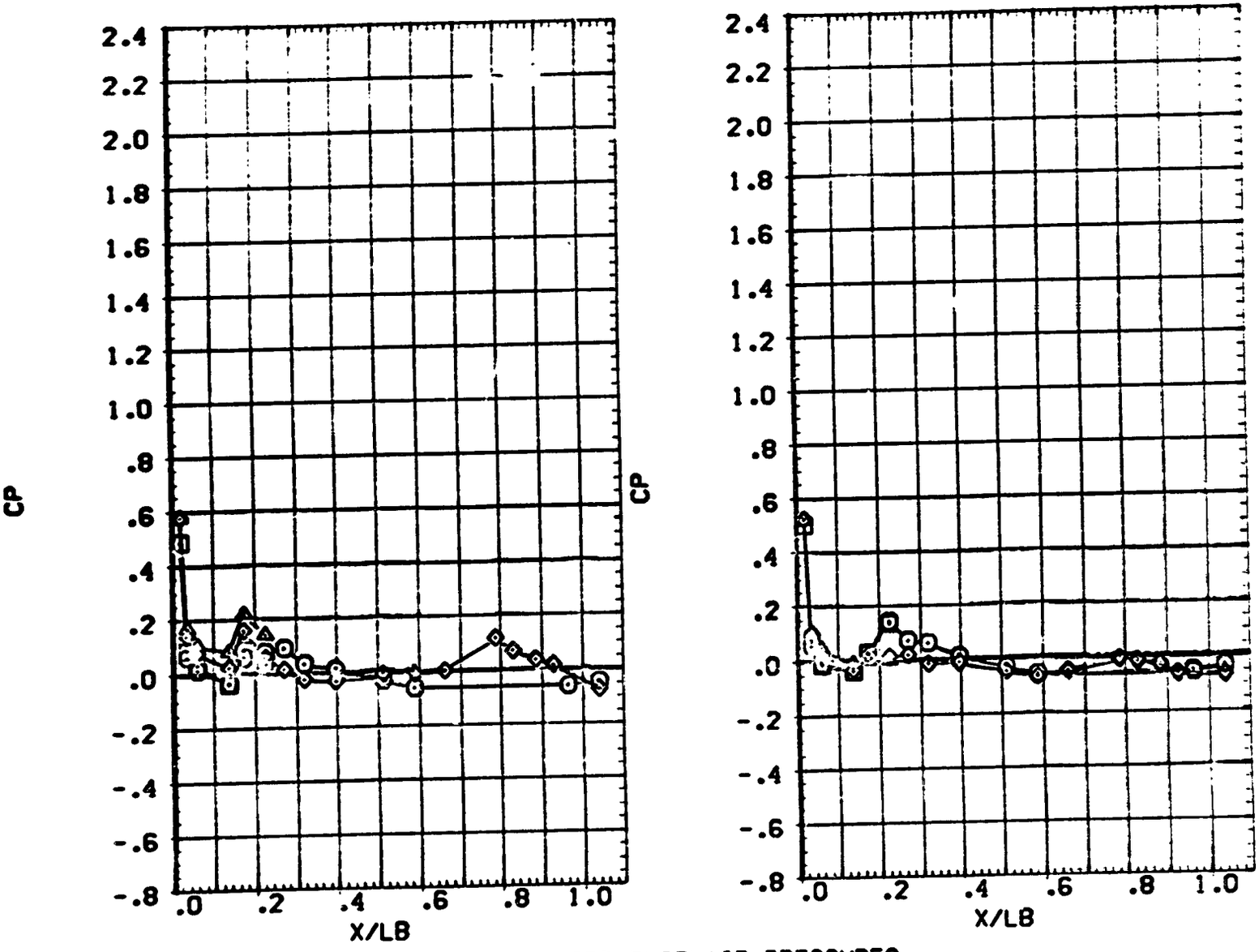
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A8 C2A + S3 + 19 ORBITER FUSELAGE (RBNBIC)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.310	3.502
◇	20.000	2.260	
△	40.000		
	55.000		

PARAMETRIC VALUES

ALPHAT	8.000	SPEINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



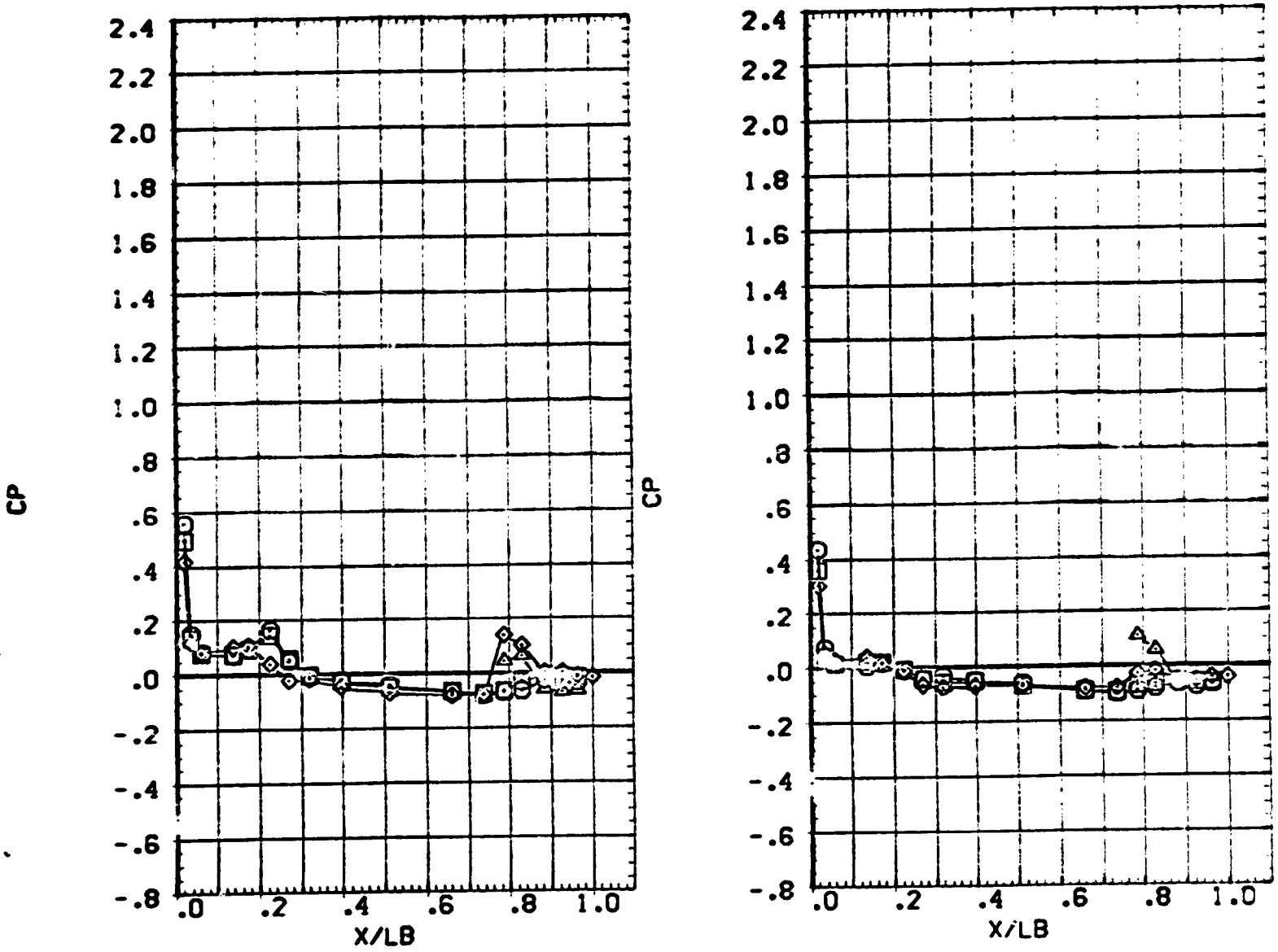
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA8 02A - S3 - T8 ORBITER FUSELAGE (RBNB10)

SYMBOL	PHI	BETAT	MACH
○	70.000	-4.310	3.502
□	80.000	2.760	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

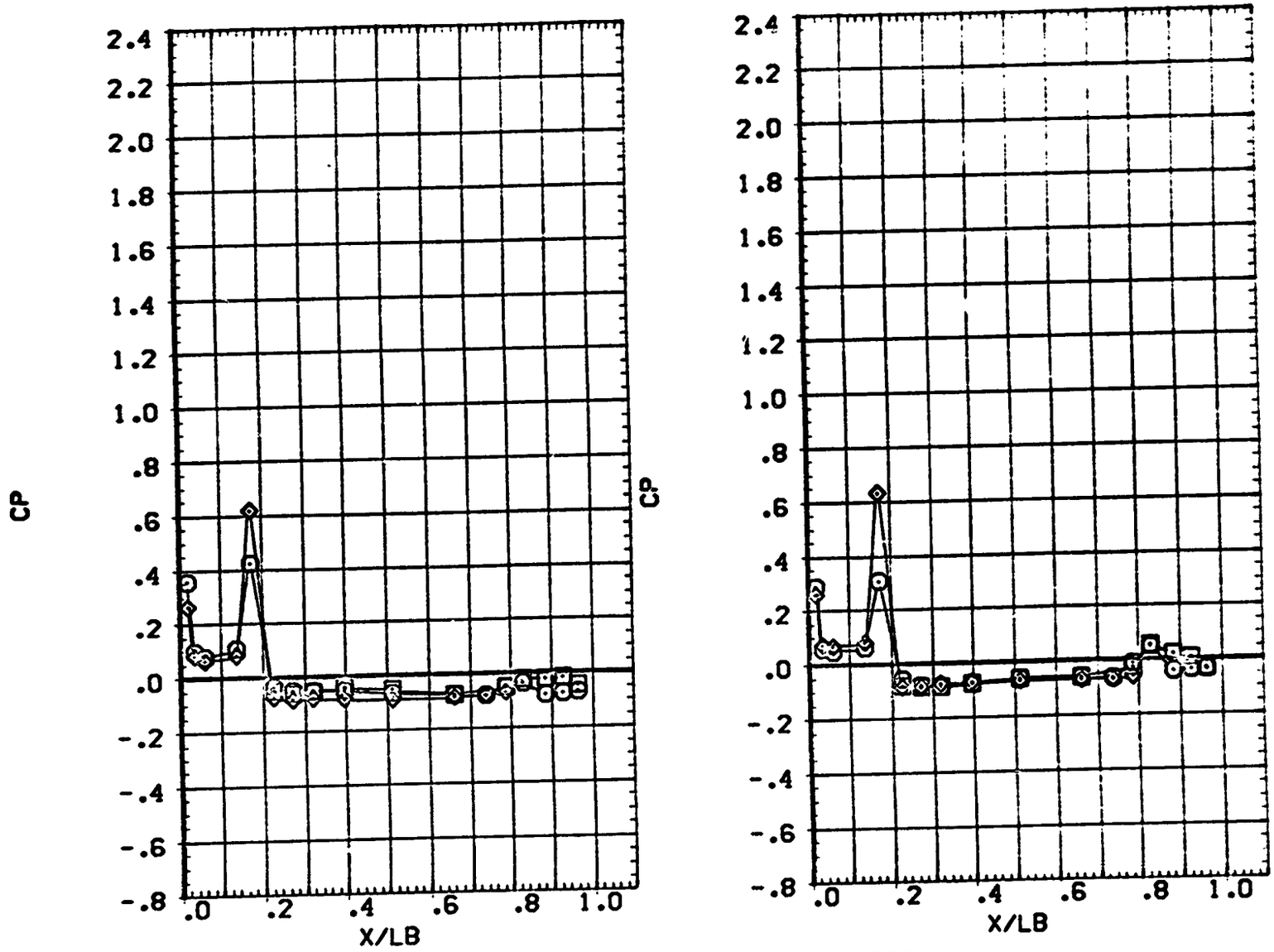


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

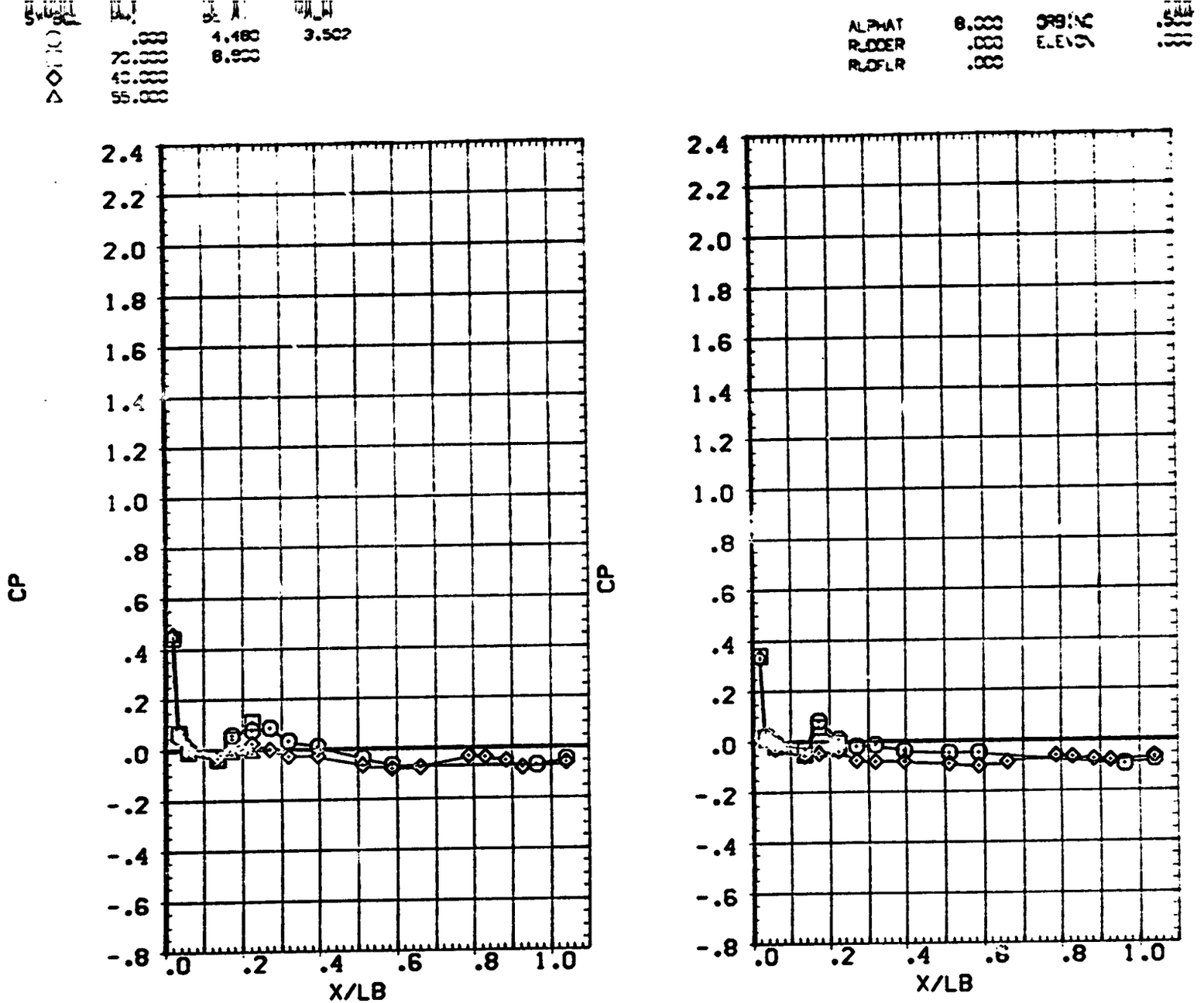
SYMBOL	PH:	BETAT	MACH
○	:50.000	-4.310	3.502
□	:65.000	2.260	
◇	:80.000		

PARAMETRIC VALUES

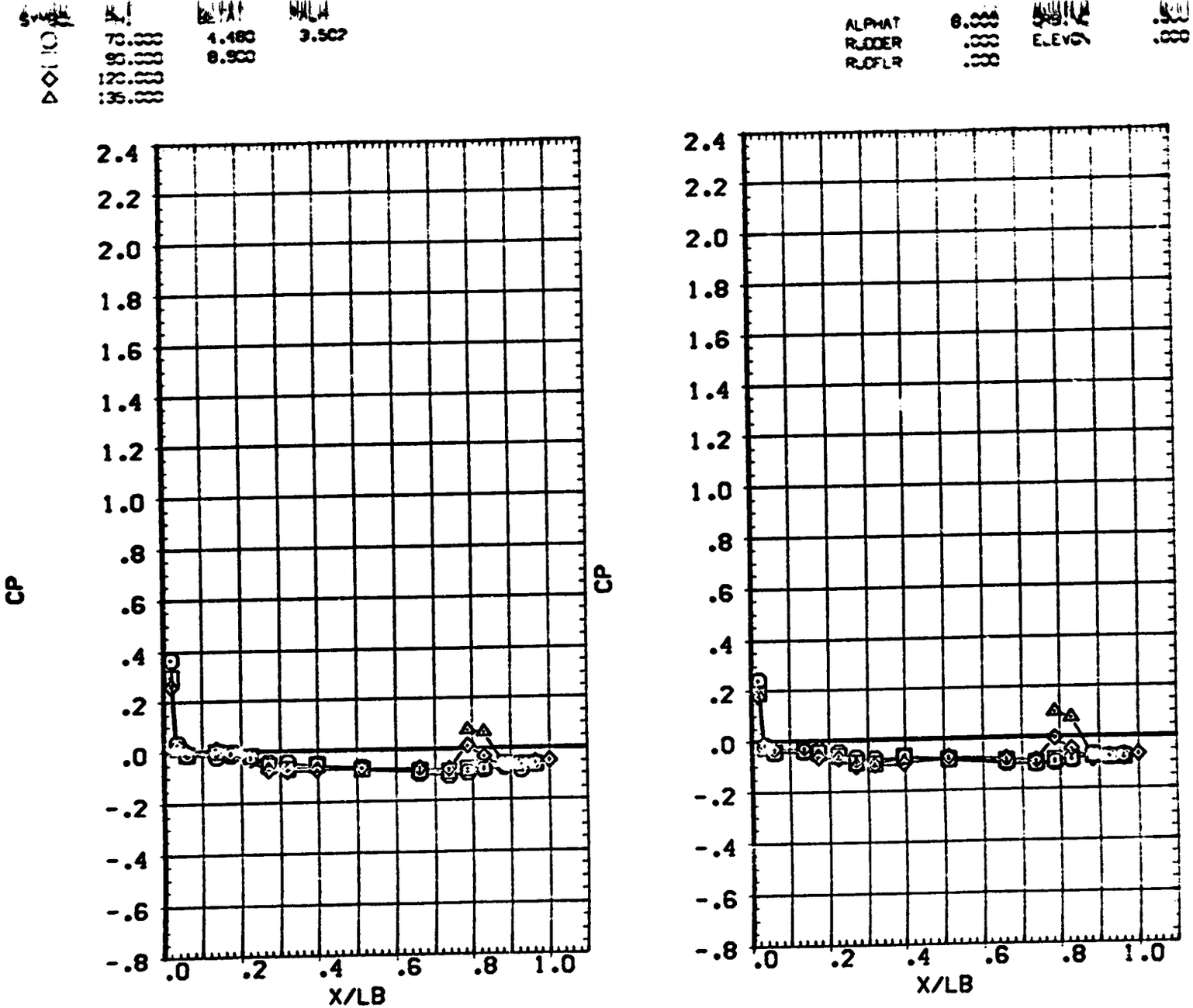
ALPHAT	8.000	DBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



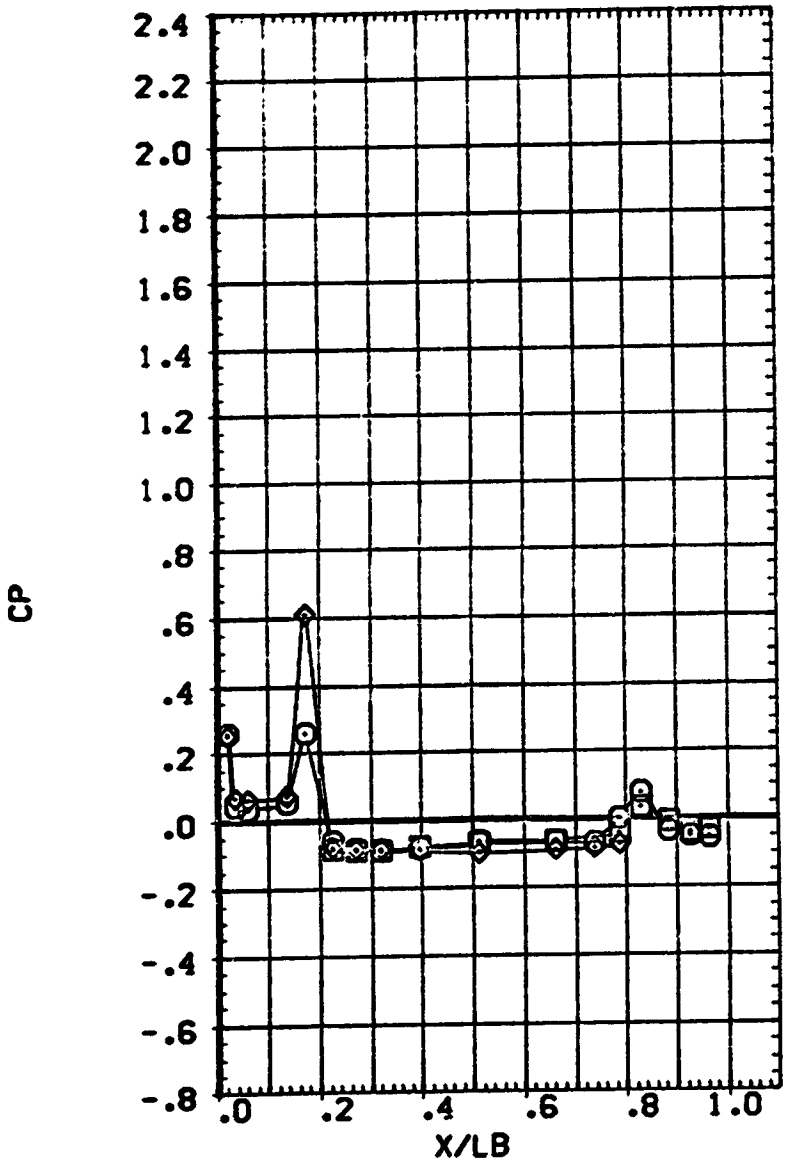
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

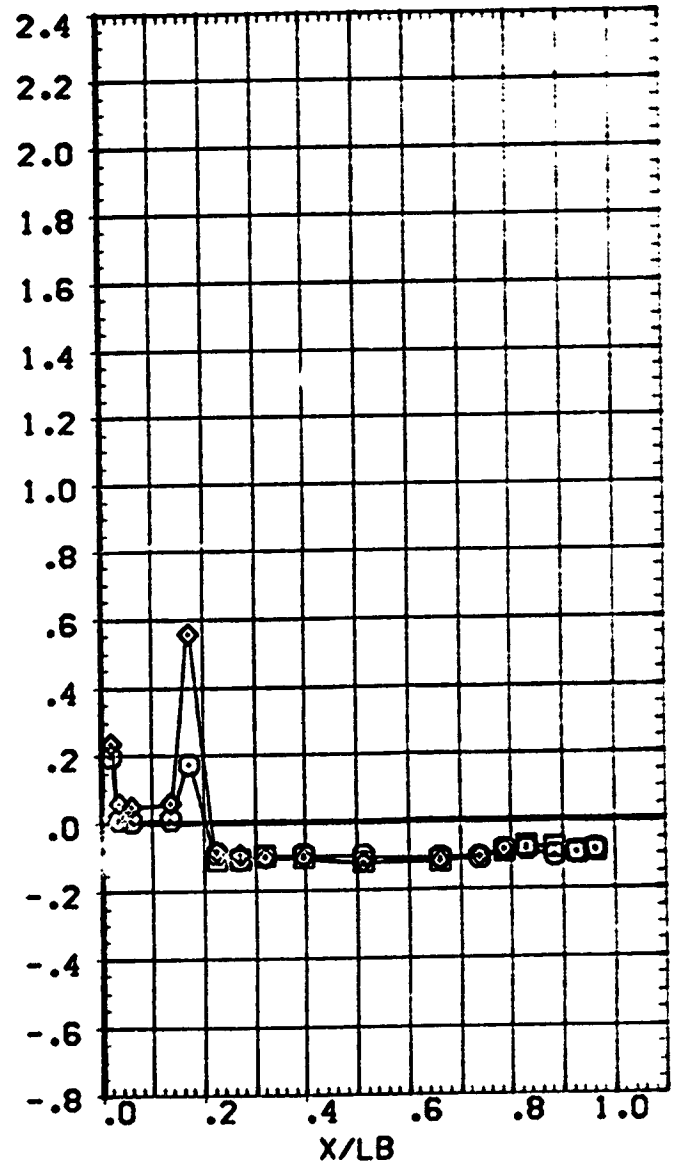


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

◇	150.000	4.480	3.502
□	165.000	8.900	
○	180.000		

ALPHA	0.000	BETA	.000
RUDDER	.000	ELEVON	.000
RUDFLR	.000		





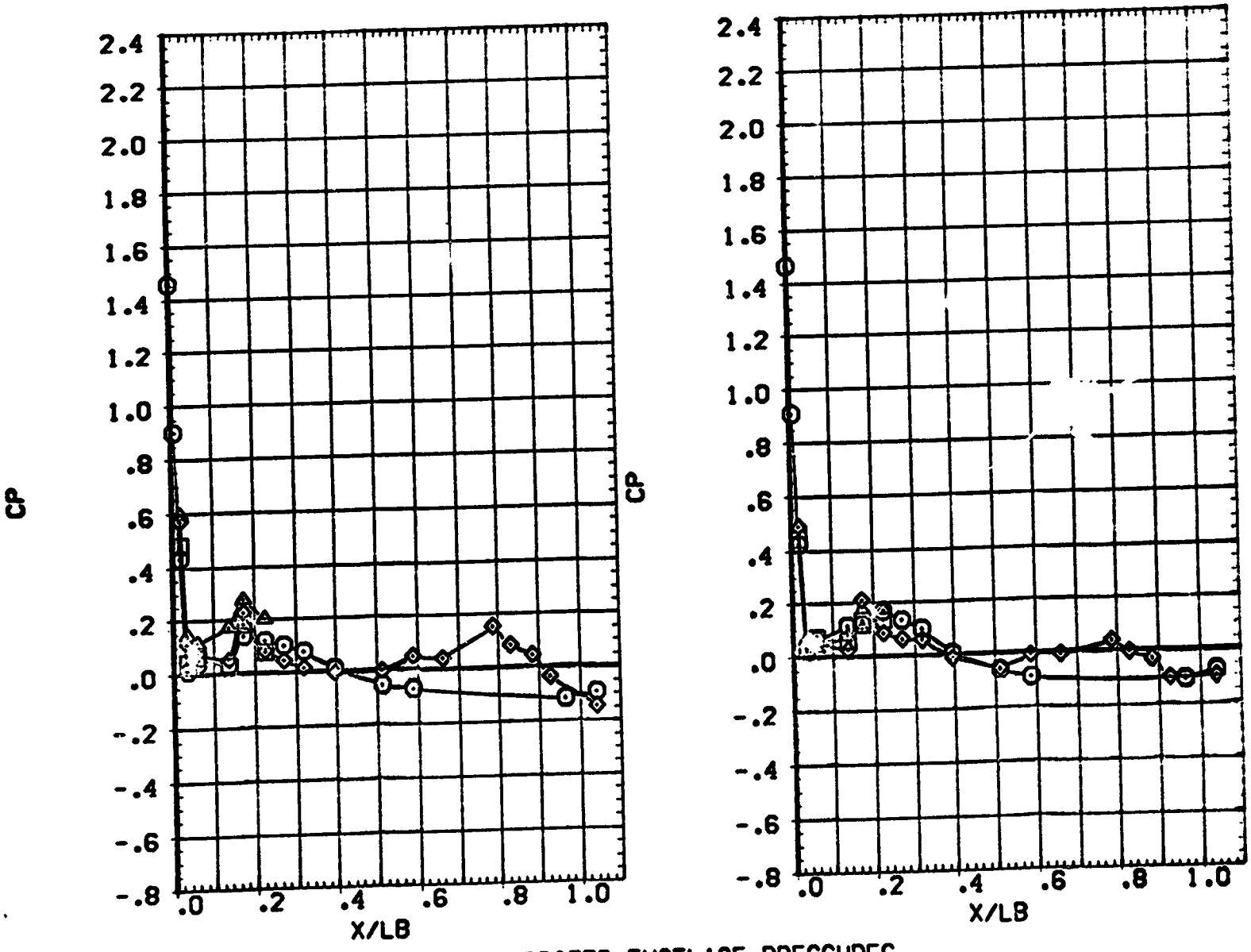
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBN313)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.180	2.498
□	20.000	.060	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



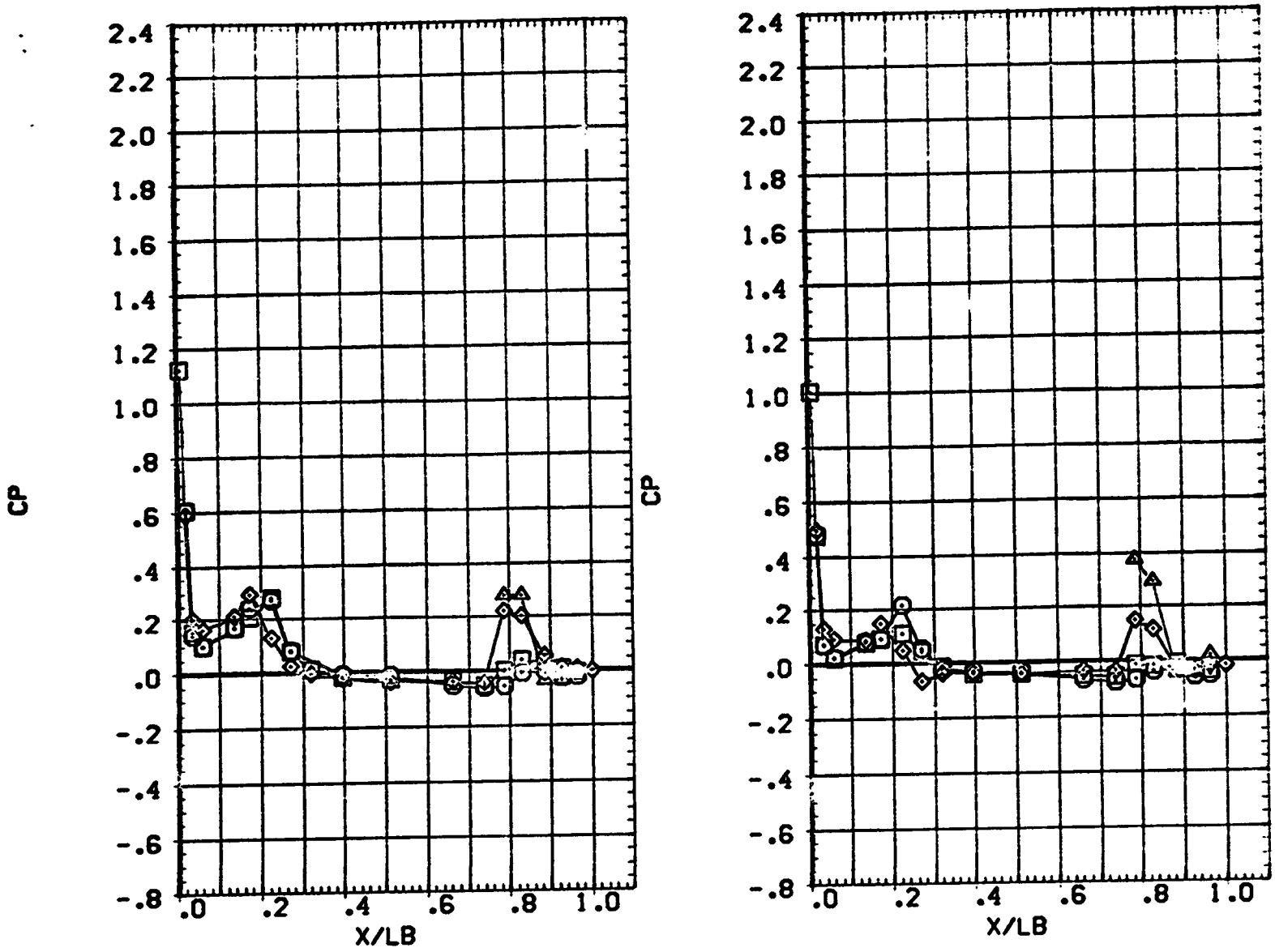
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB13)

SYMBOL	PHI	BETAT	MACH
□	70.0000	-4.180	2.498
◇	90.0000	.060	
△	120.0000		
	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

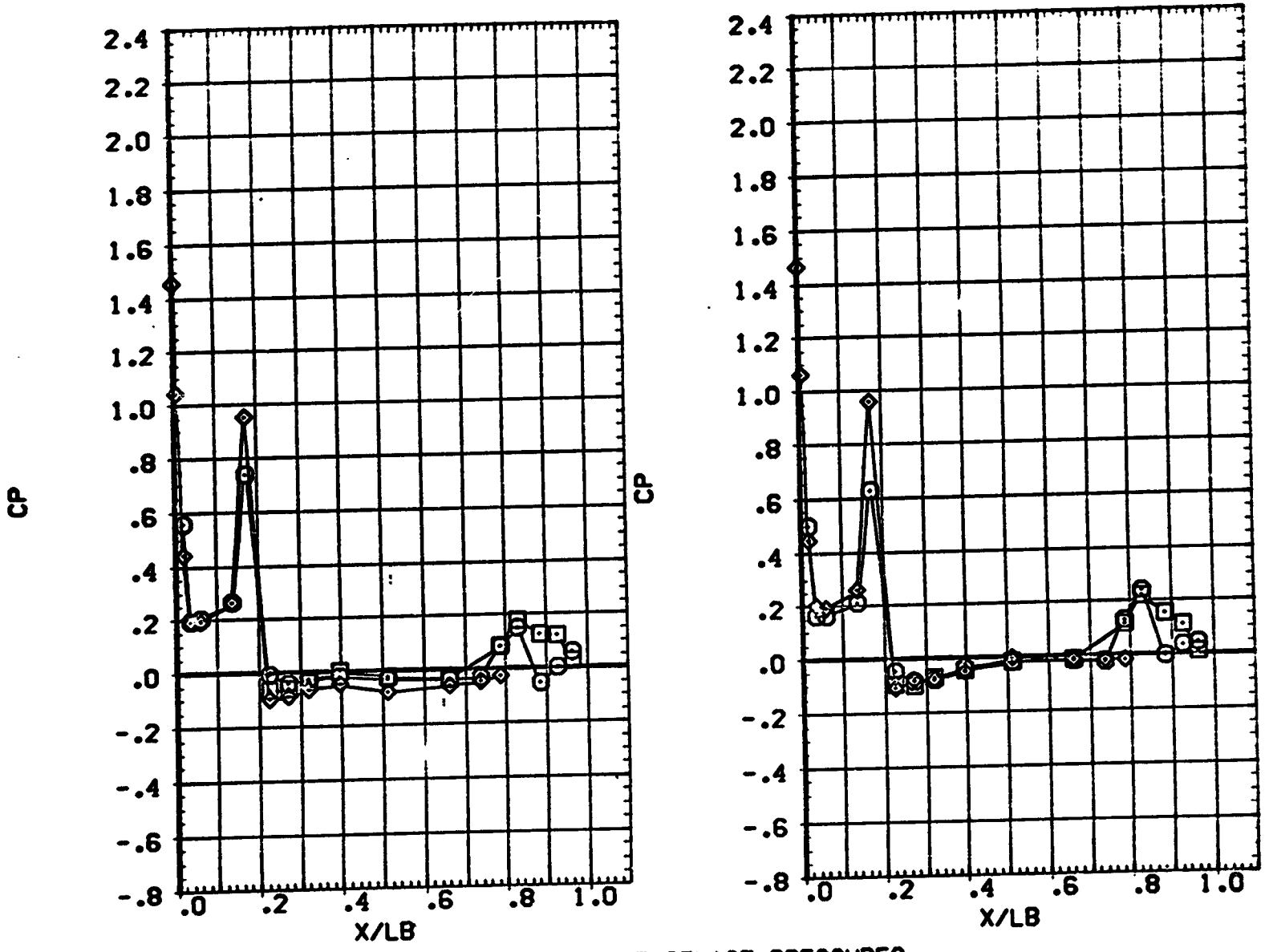


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL	PHI	BETAT	MACH
◇	150.000	-4.180	2.498
	165.000	.060	
	180.000		

PARAMETER VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



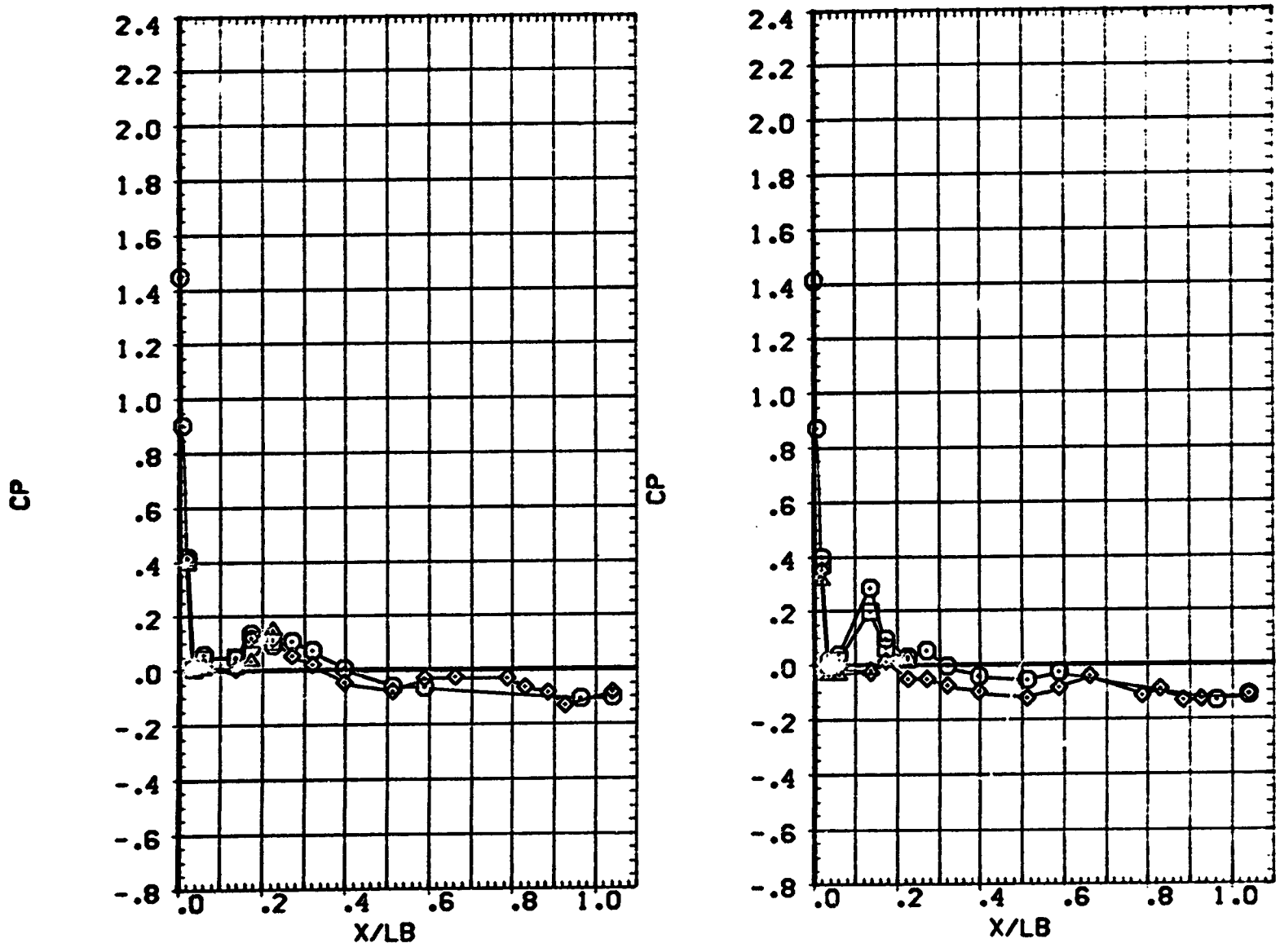
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RUN 113)

SYMBOL	PHI	BETAT	MACH
○	.000	4.300	2.498
□	20.000	8.540	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	SPEVC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



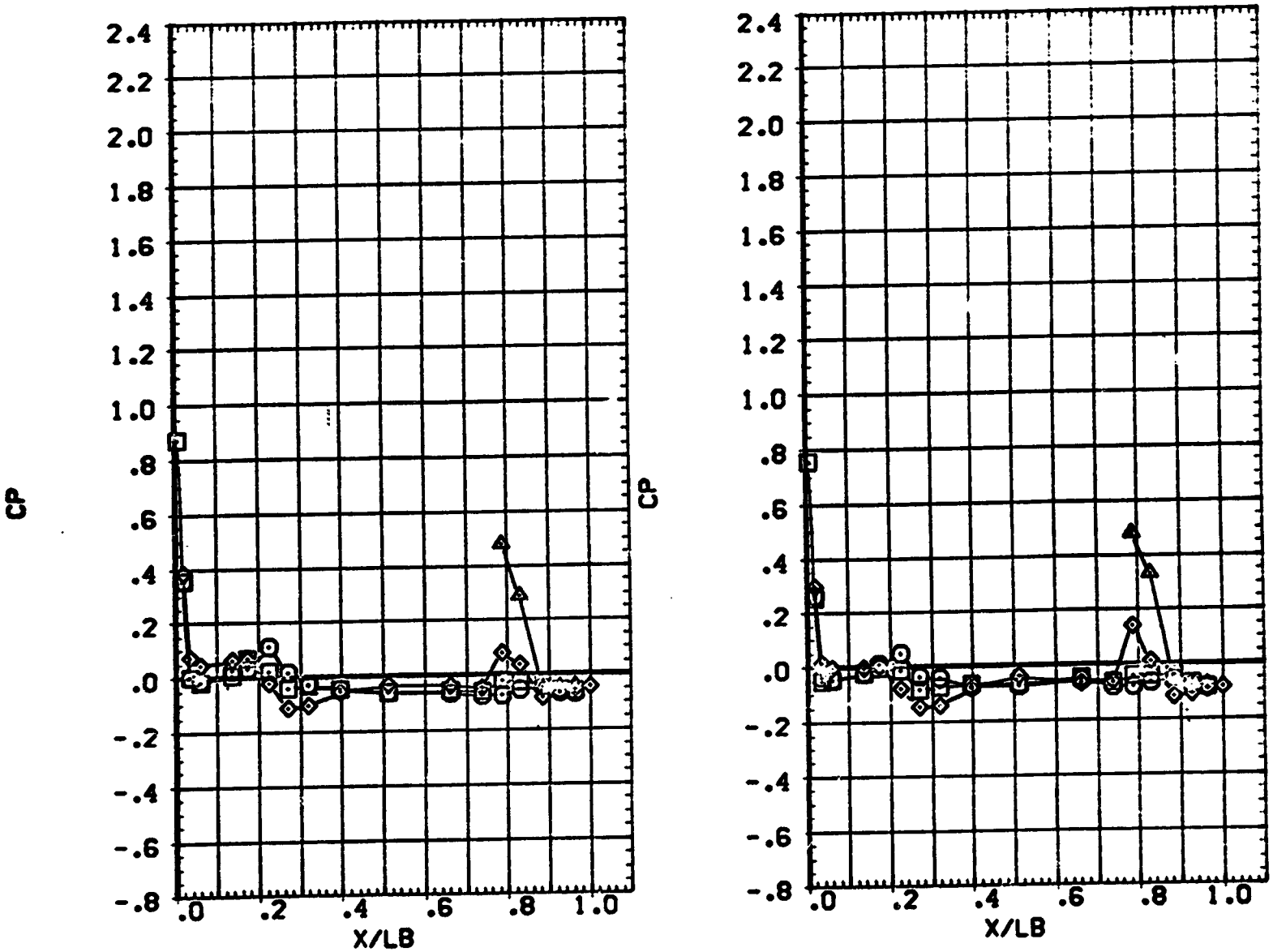
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB13)

SYMBOL	PHI	BETAT	MACH
○	70.000	4.300	2.498
□	90.000	8.540	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

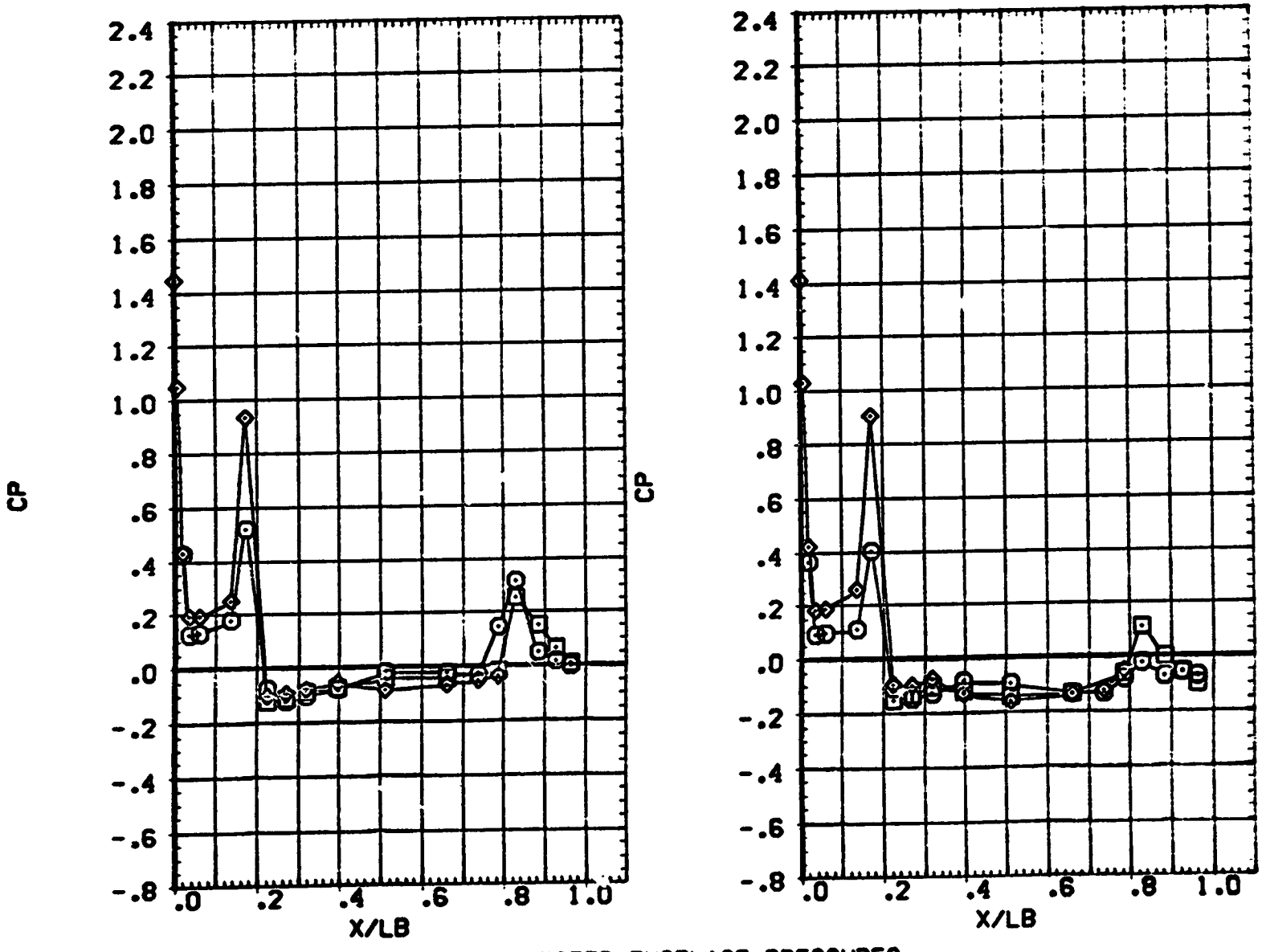


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

Symbol	PHI	BETAT	MACH
○	150.000	4.300	2.498
□	165.000	8.540	
◇	180.000		

PARAMETRIC VALUES

ALPHA	.000	SPEINC	.500
RUDDER	-15.000	ELEVON	.000
ROTLR	.000		



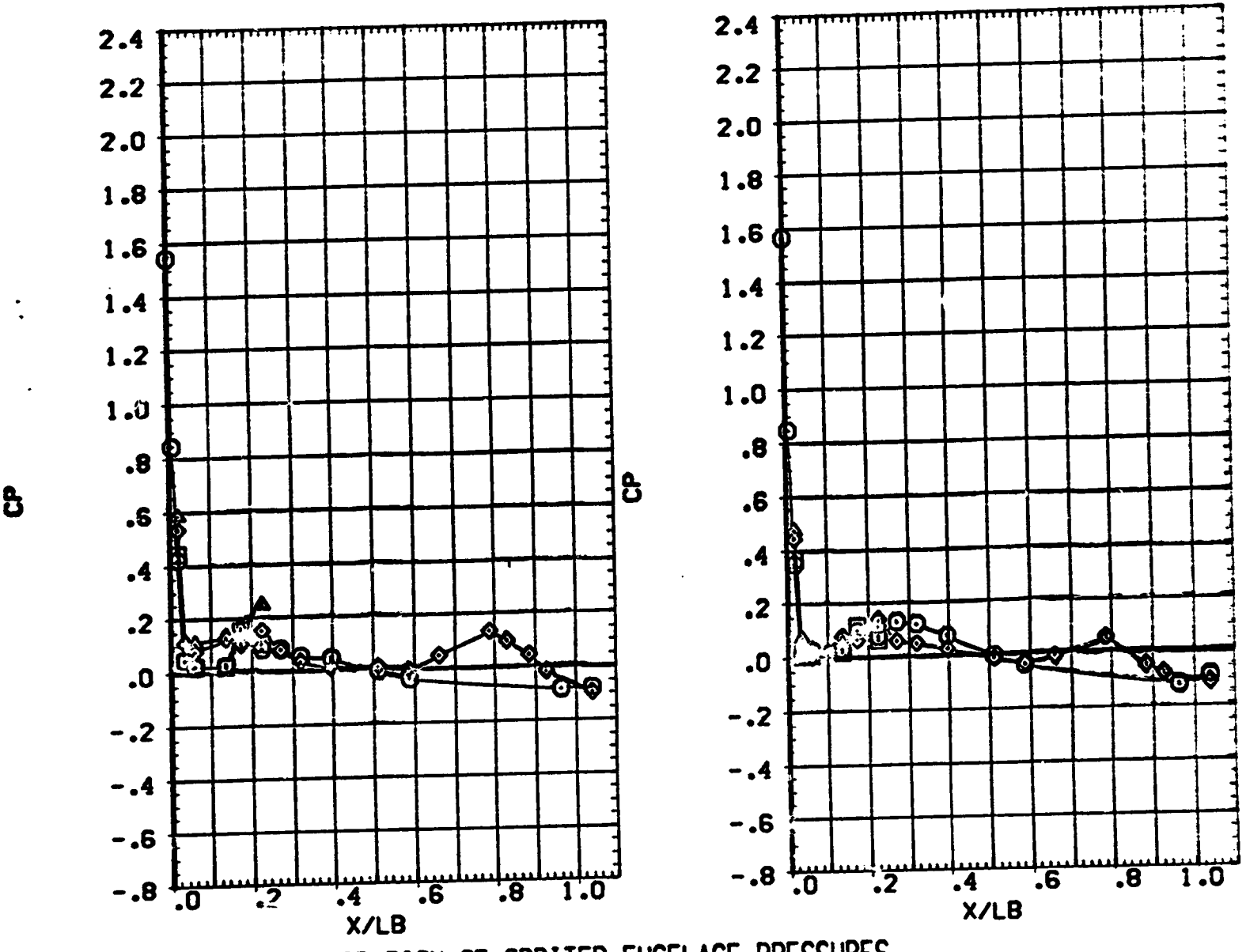
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB13)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.260	2.999
◇	20.000	.060	
△	40.000		
	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



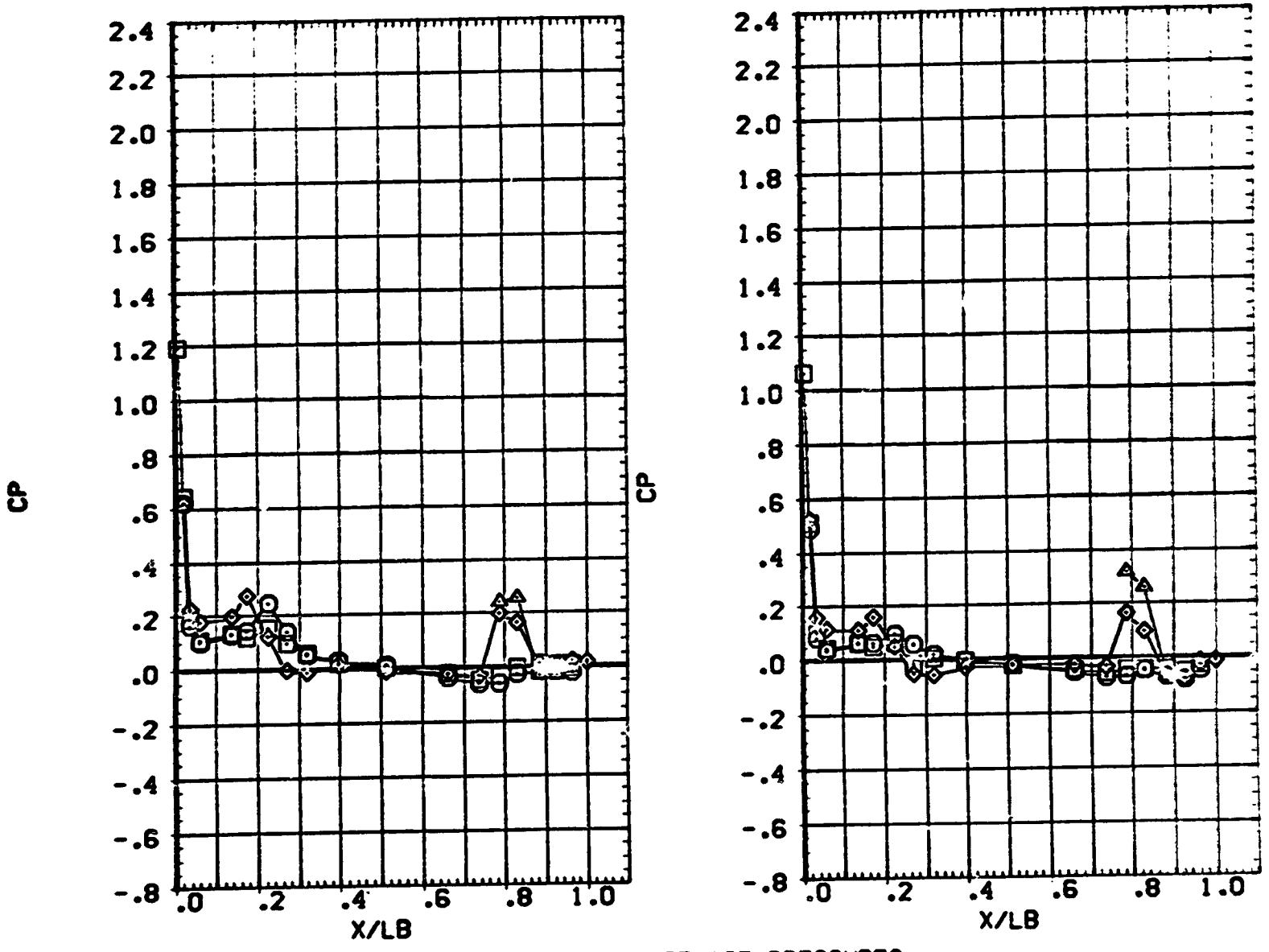
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 :A9 02A + S3 + T9 ORBITER FUSELAGE (RBNB13)

SYMBOL	PHI	BETAT	MACH
○(1)	70.000	-4.260	2.999
◇	90.000	.000	
△	120.000		
	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



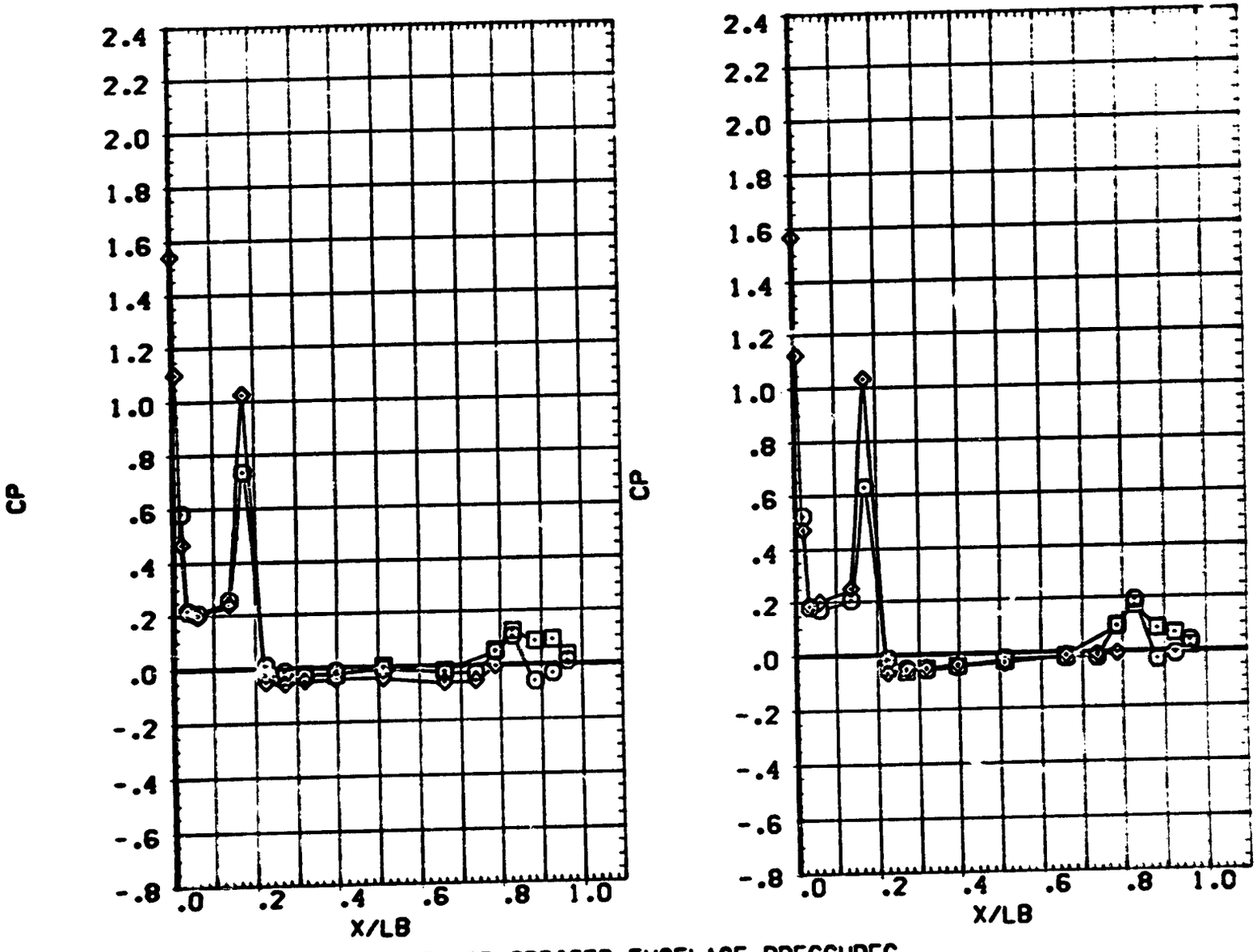
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBN313)

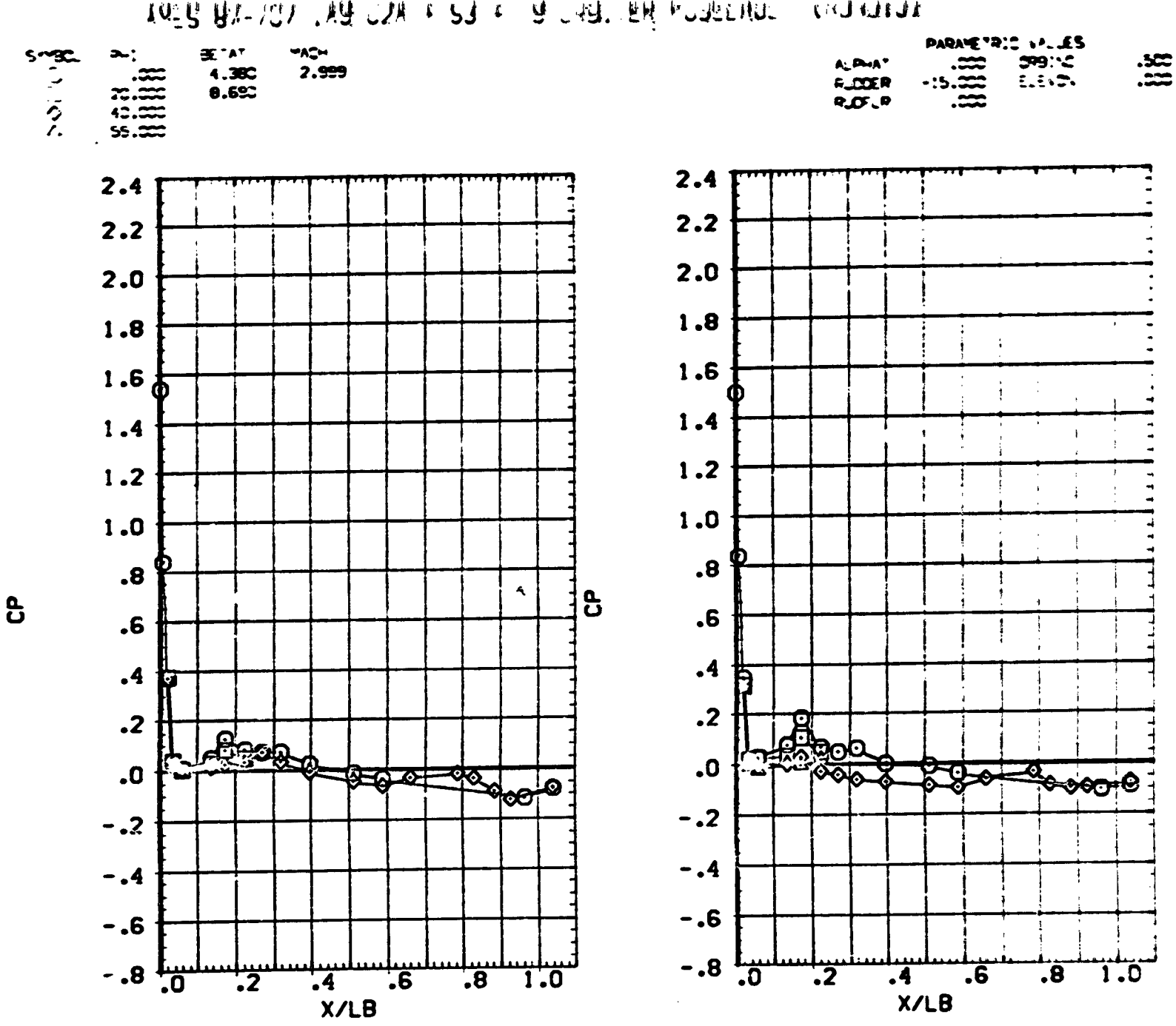
SYMBOL	PHI	BETA	MACH
○	150.000	-4.260	2.999
□	165.000	.060	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	.000	SPEC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



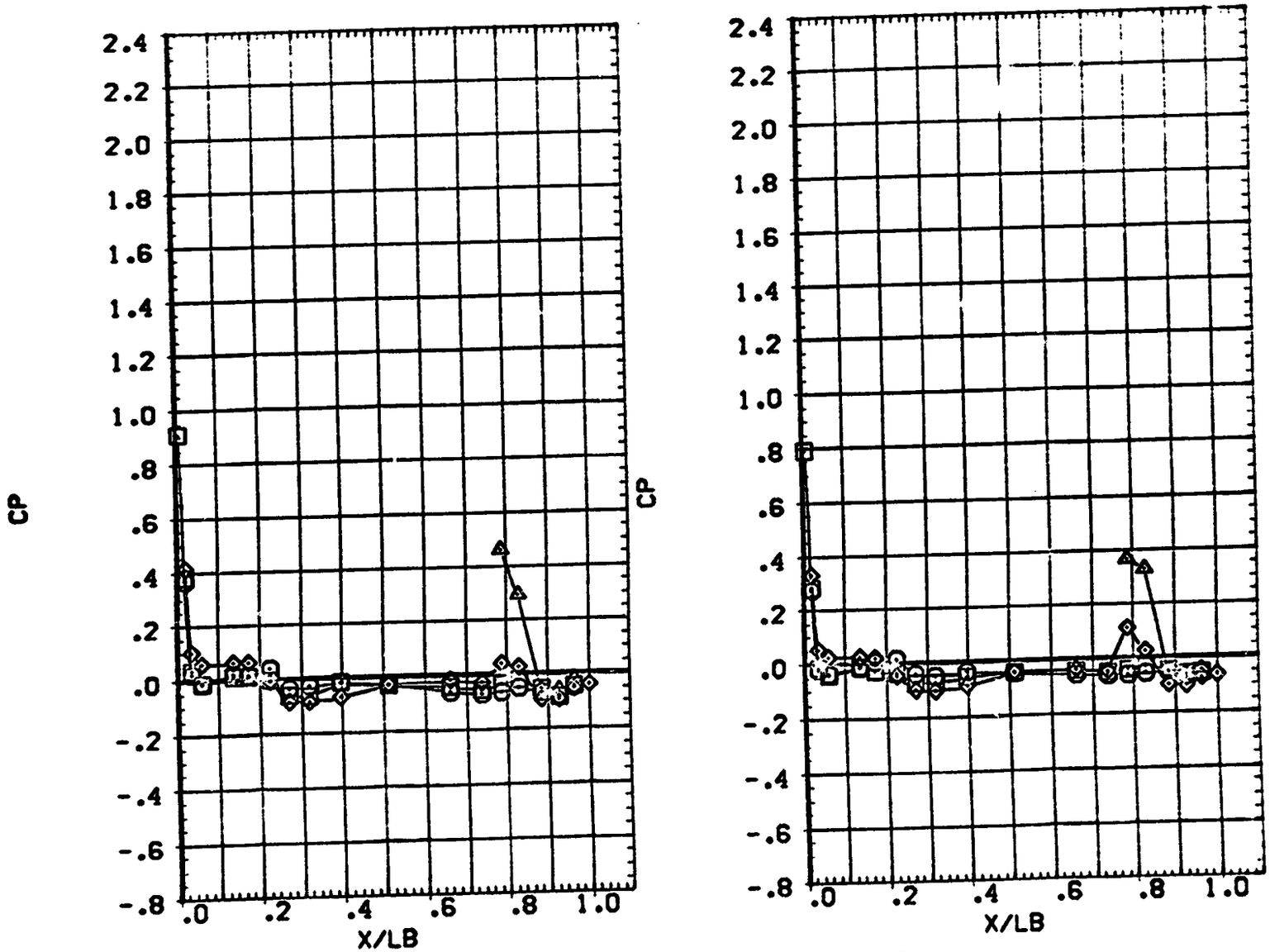
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL	PHI	BETAT	MACH
□	70.000	4.380	2.999
○	90.000	8.690	
◇	120.000		
△	135.000		

ALPHAT	.000	DBI:NC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

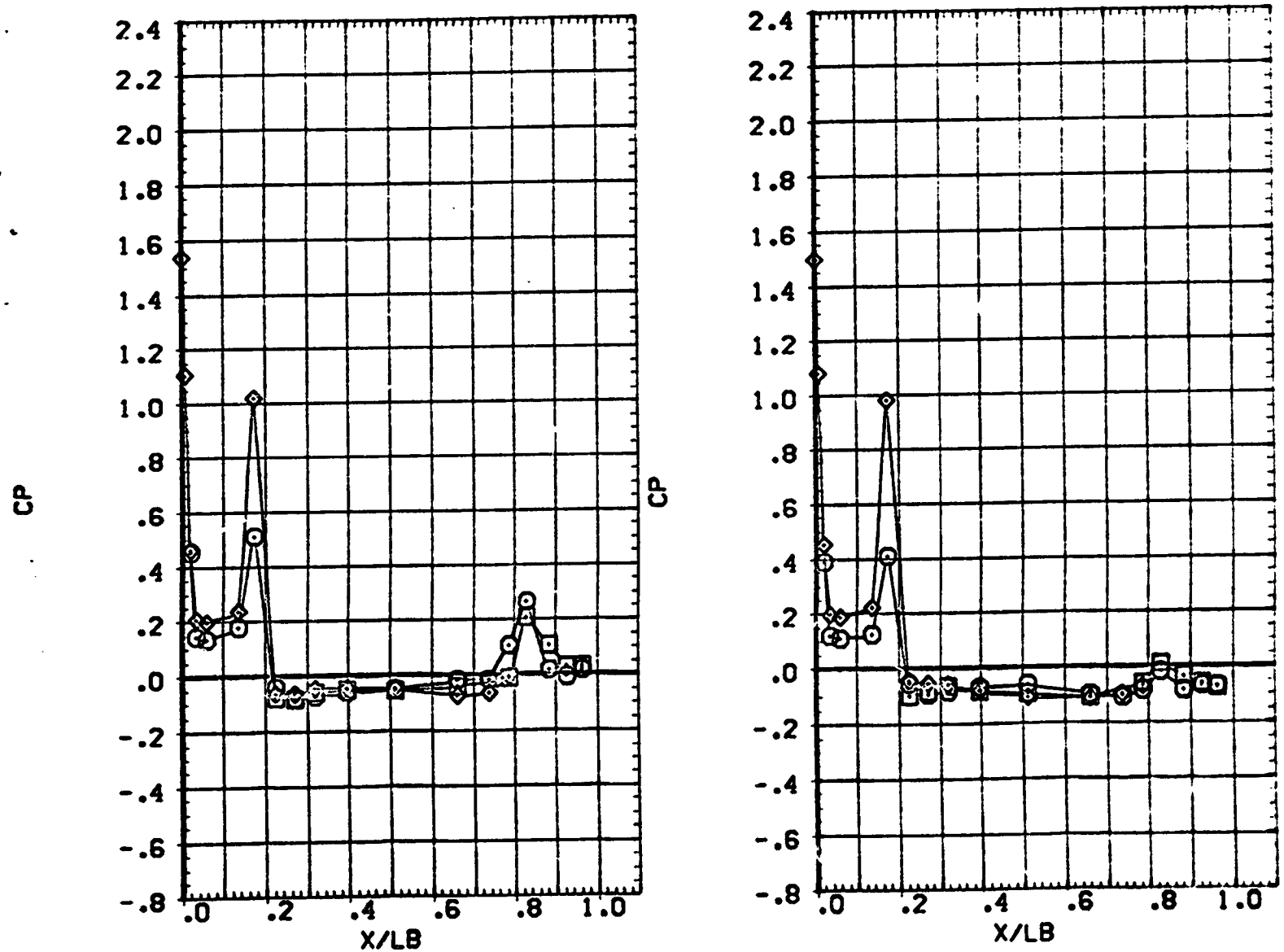


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL	PHI	BETAT	MACH
◇	150.000	4.380	2.999
○	165.000	8.690	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	.000	GPS/C	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



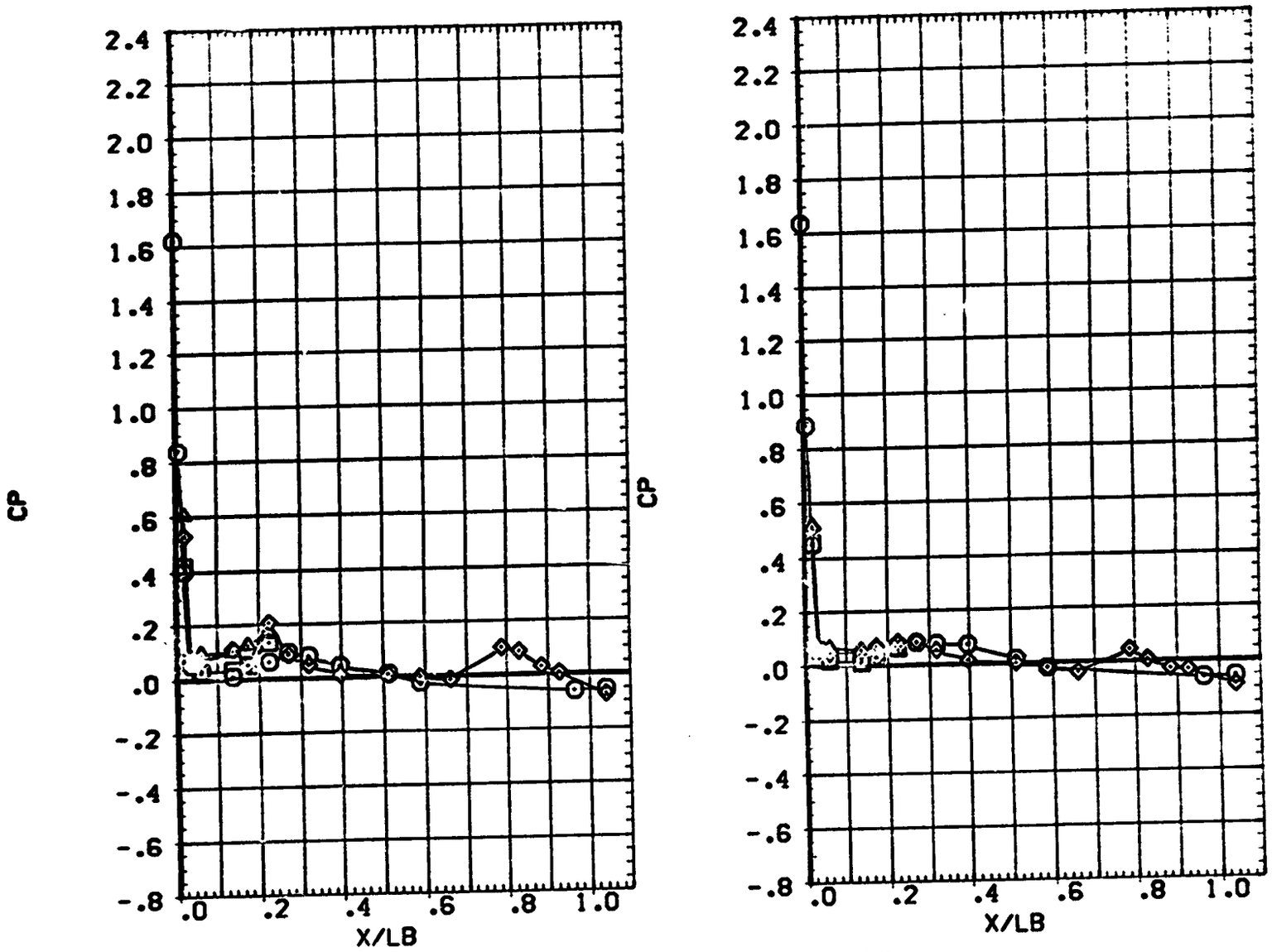
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RUNB13)

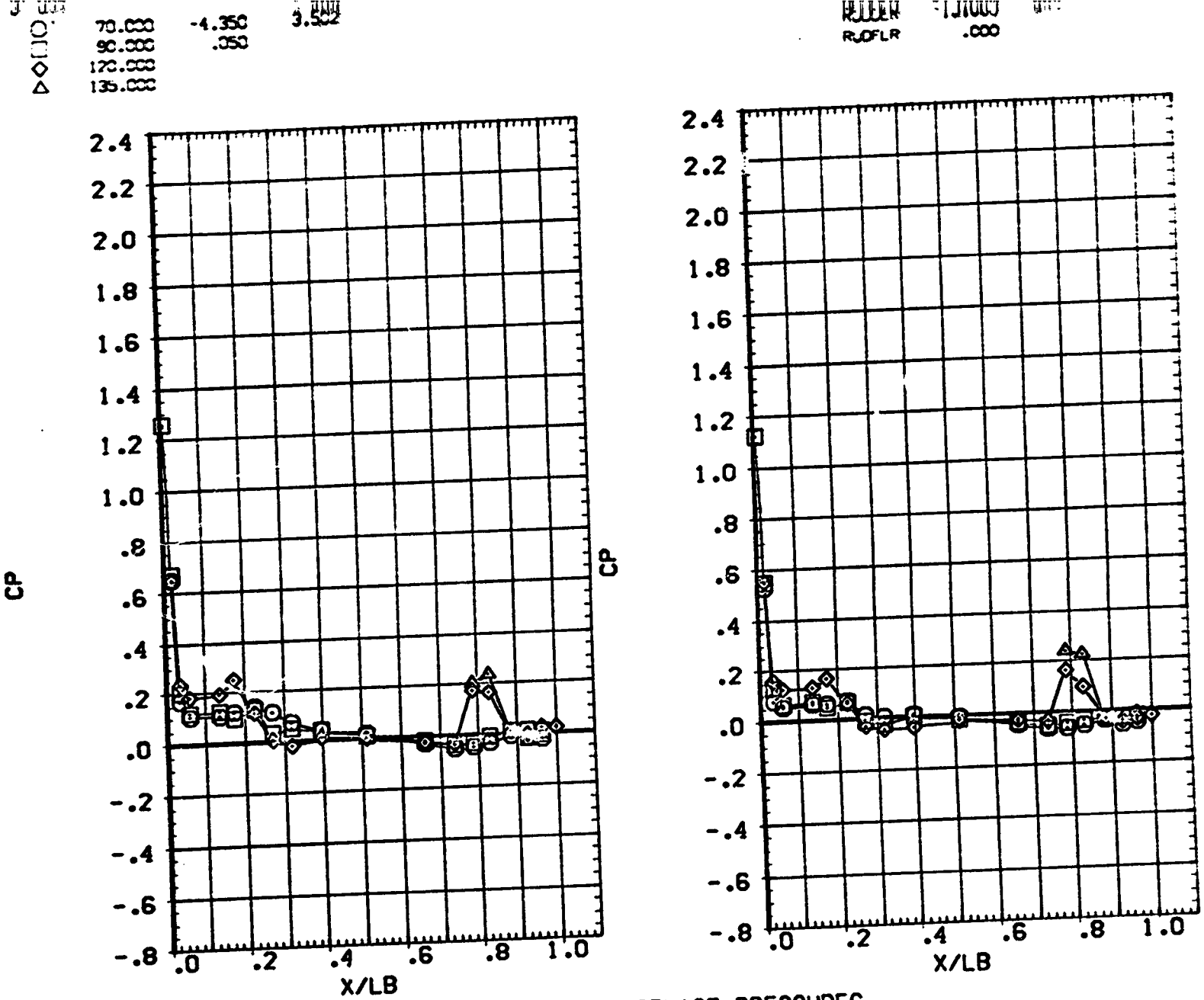
SYMBOL	PHI	BETAT	MACH
○	.000	-4.350	3.502
□	20.000	.050	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



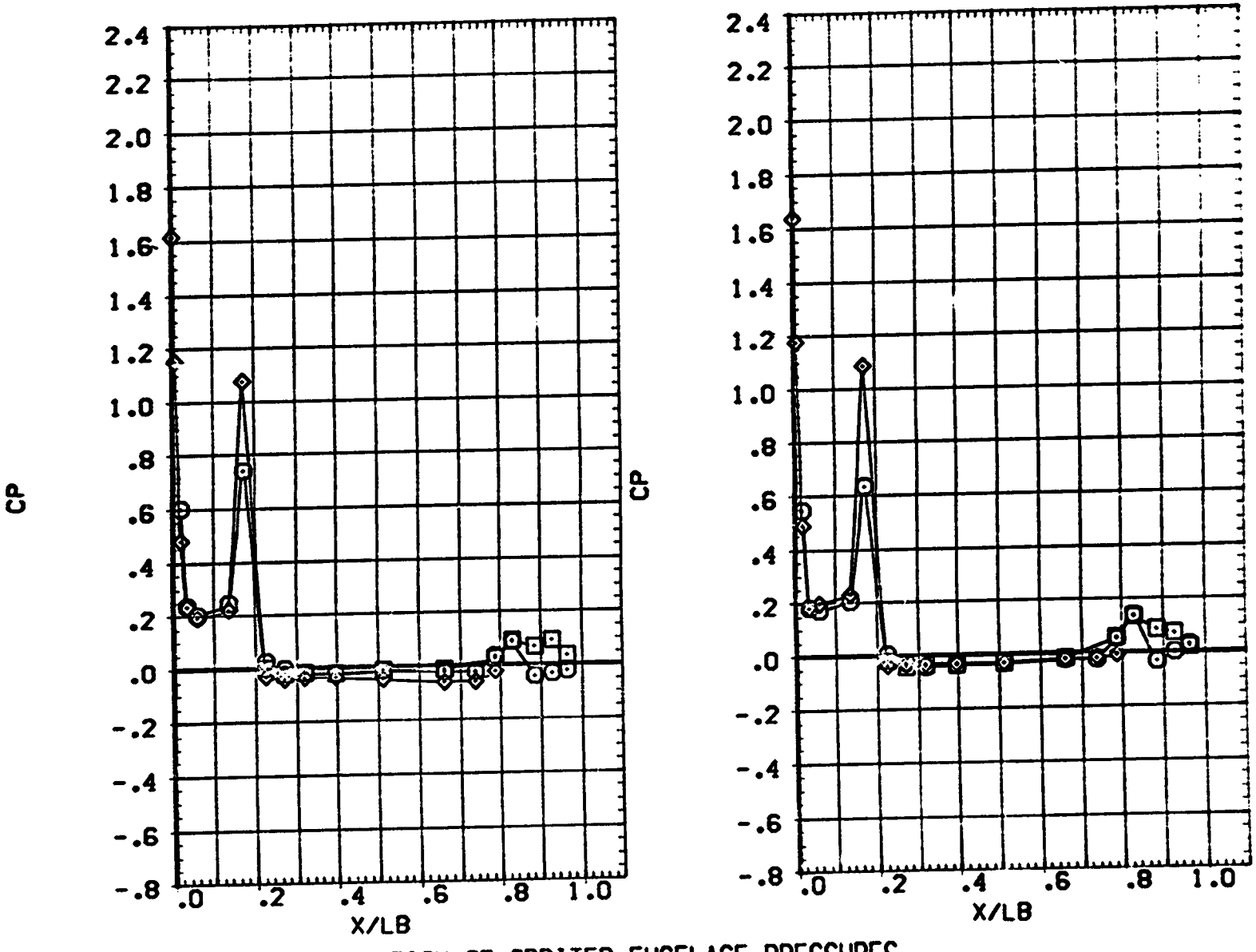
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AYES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB13)

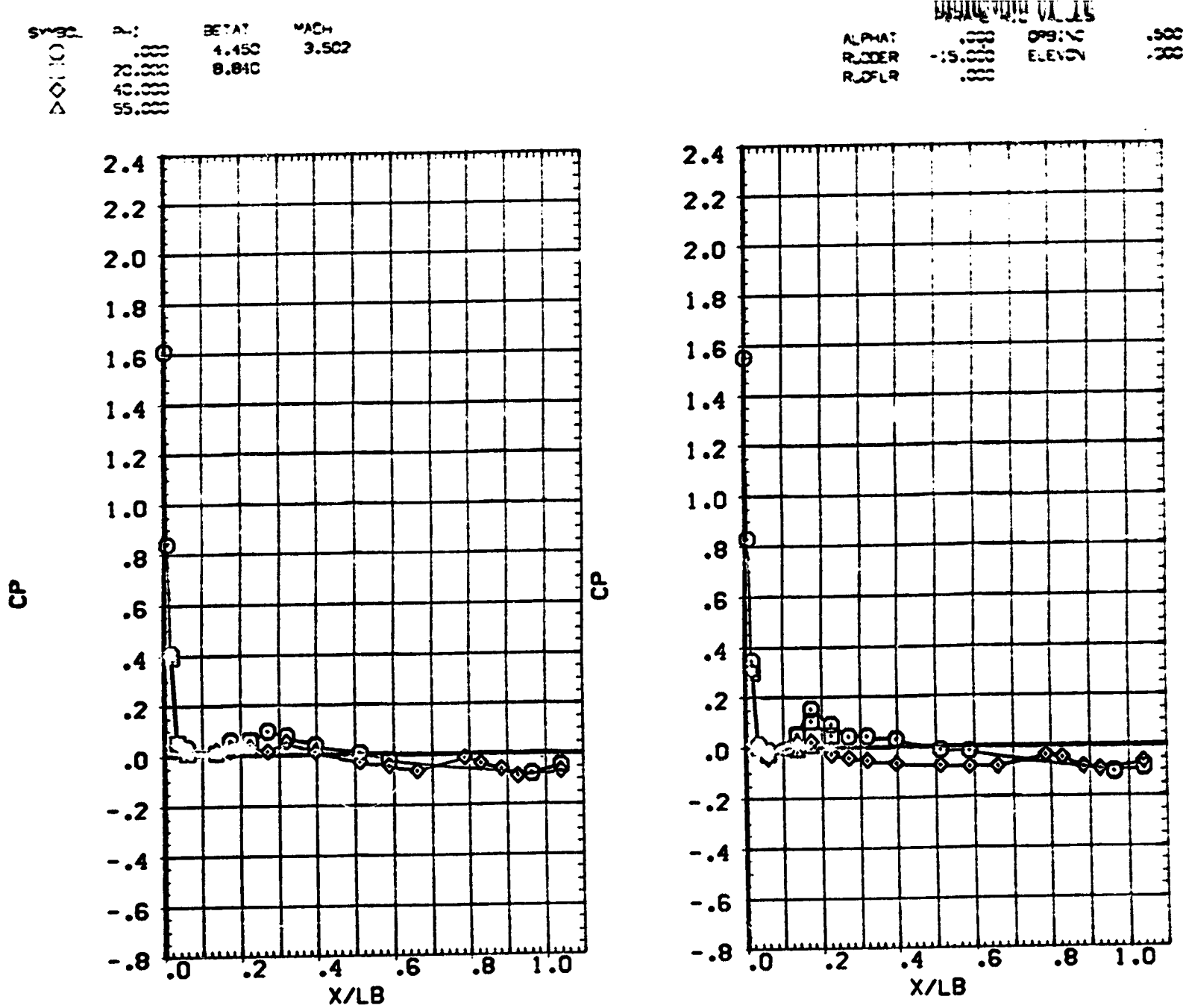
SYMBOL	PHI	BETAT	MACH
□	150.000	-4.350	3.502
○	165.000	.050	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



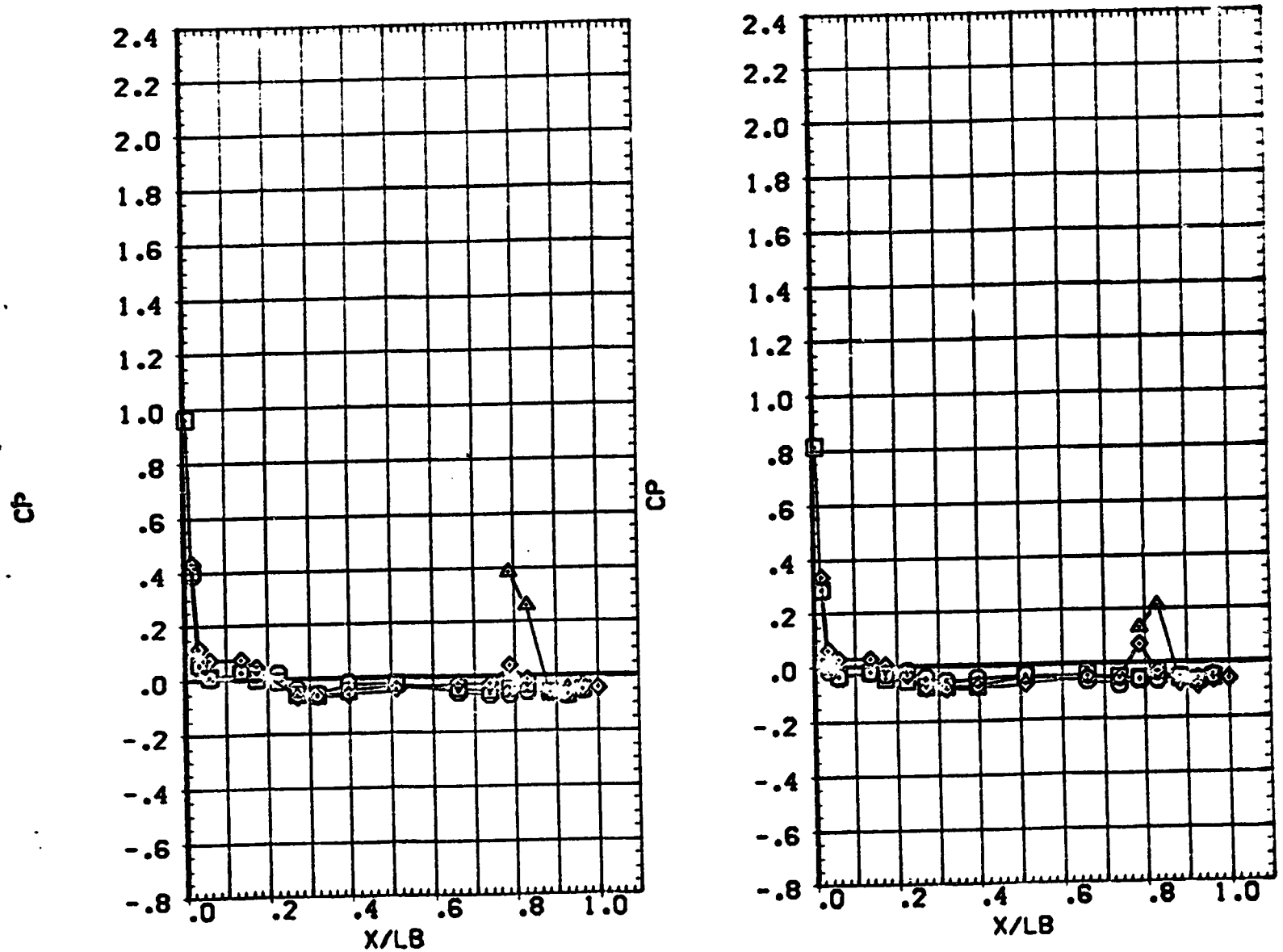
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB13)

SYMBOL	PHI	BETAT	MACH
○	70.000	4.450	3.502
□	90.000	8.840	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.000
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



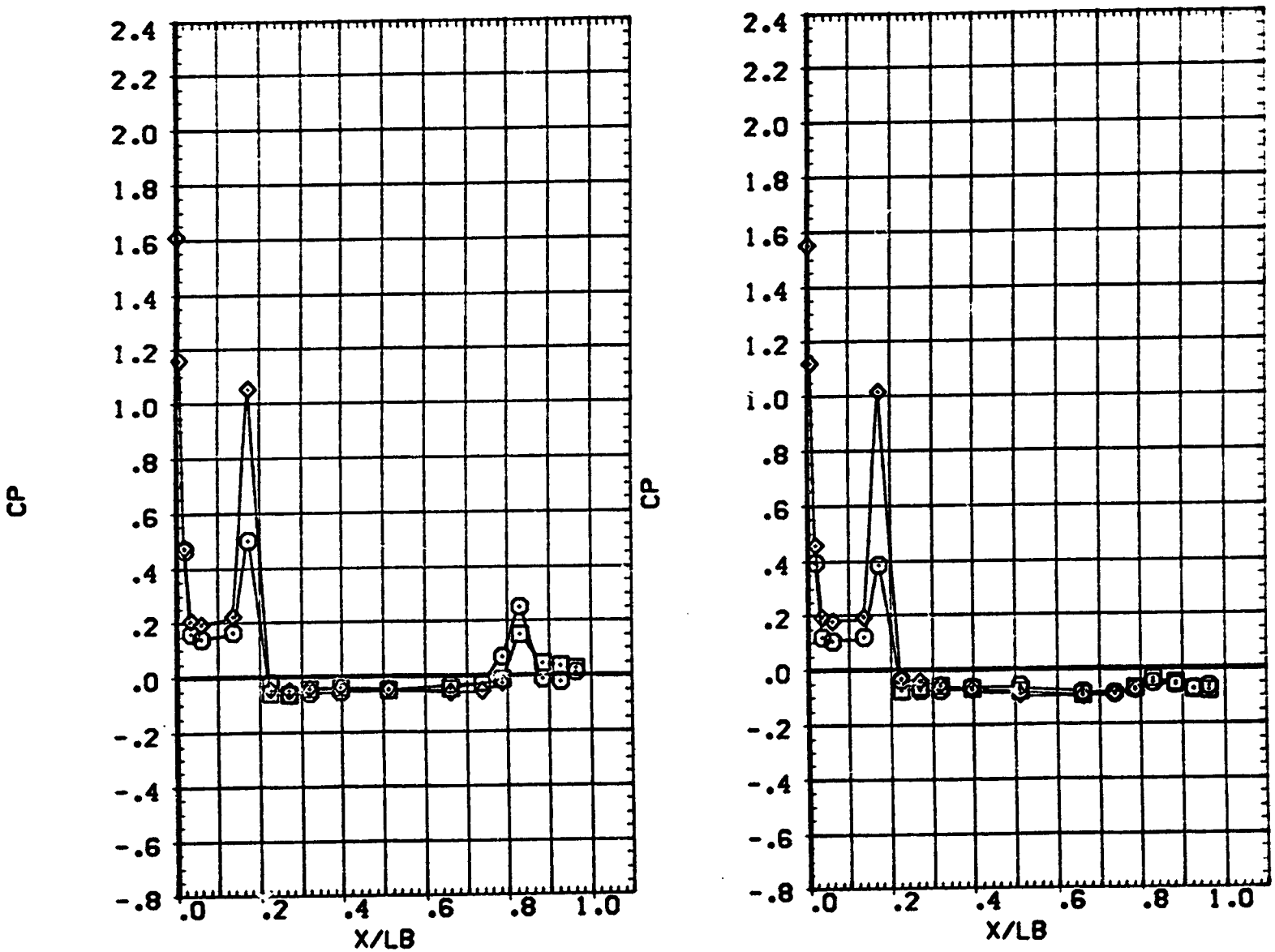
DISTRIBUTION OF ADJUSTED FUSELAGE PRESSURES

AYES 87-707 :A9 02A + S3 + T9 ORBITER FUSELAGE (RBNB13)

SYMBOL	PHI	BETAT	MACH
○	:50.000	4.450	3.502
□	:65.000	8.840	
◇	:80.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		



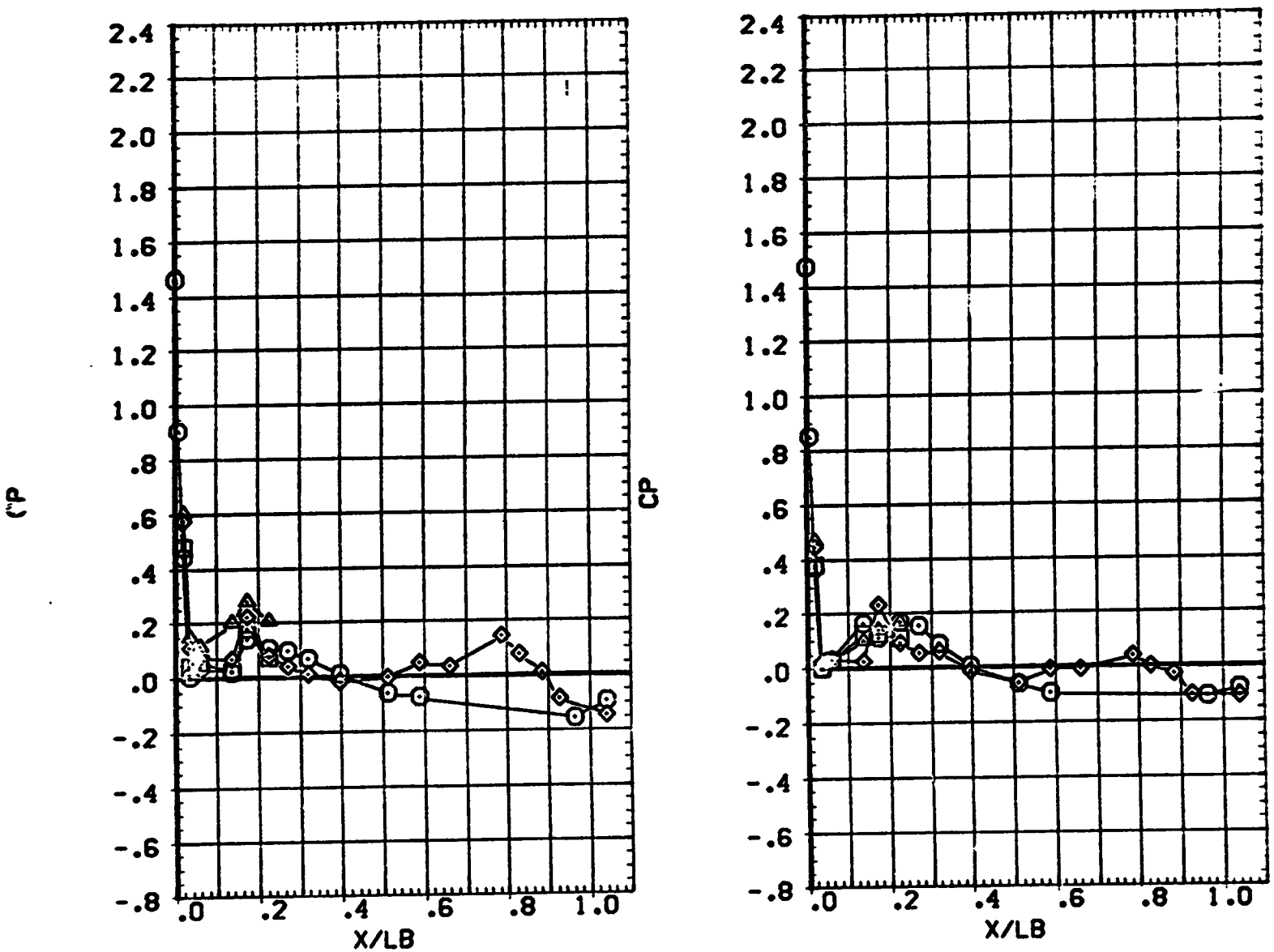
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 32A + S3 + T9 ORBITER FUSELAGE (RBNB19)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.180	2.499
□	20.000	.060	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

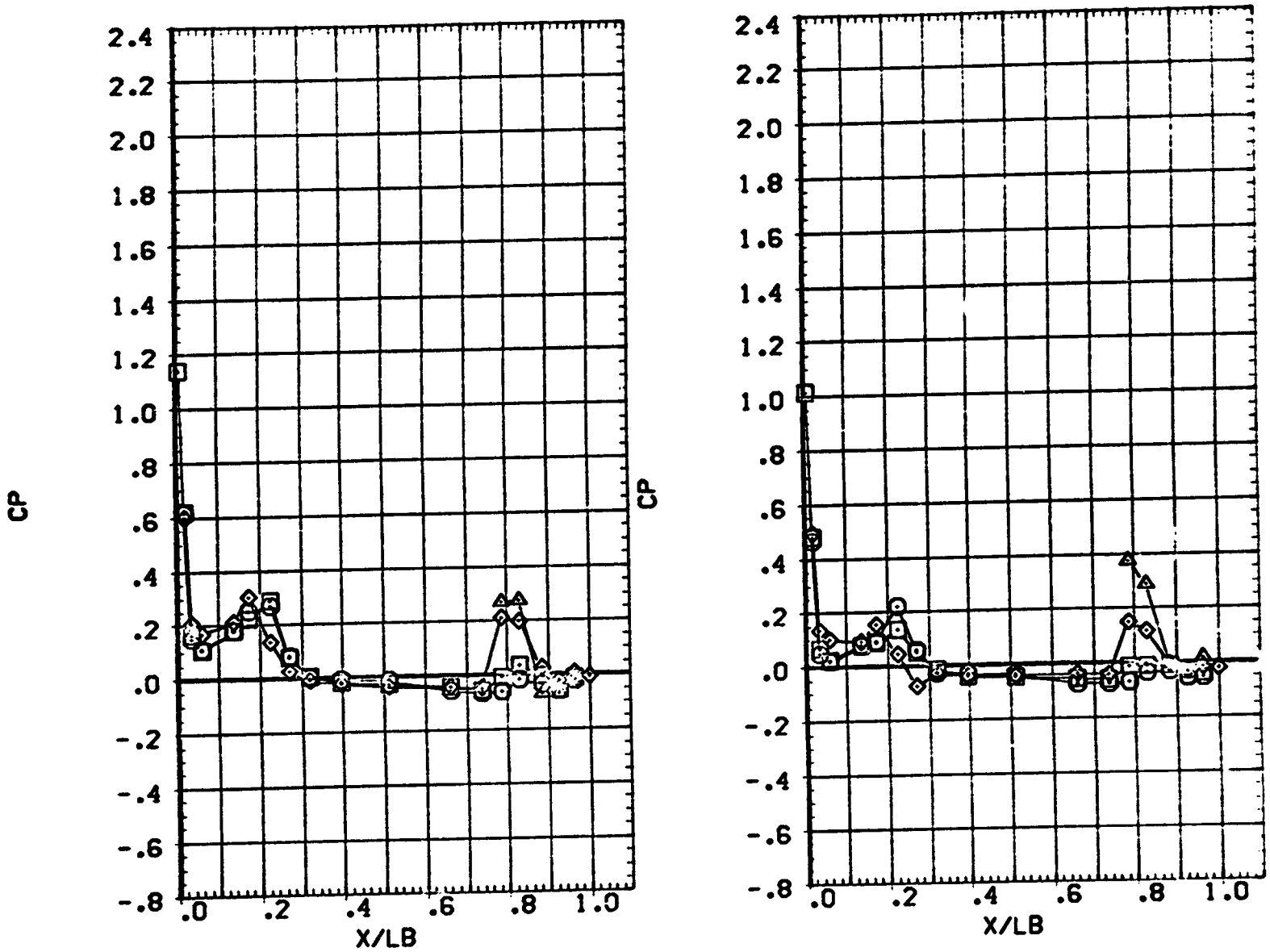
ALPHAT	.000	ORBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

○	70.000	-4.180	2.499
□	90.000	.060	
◇	120.000		
△	135.000		

RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		



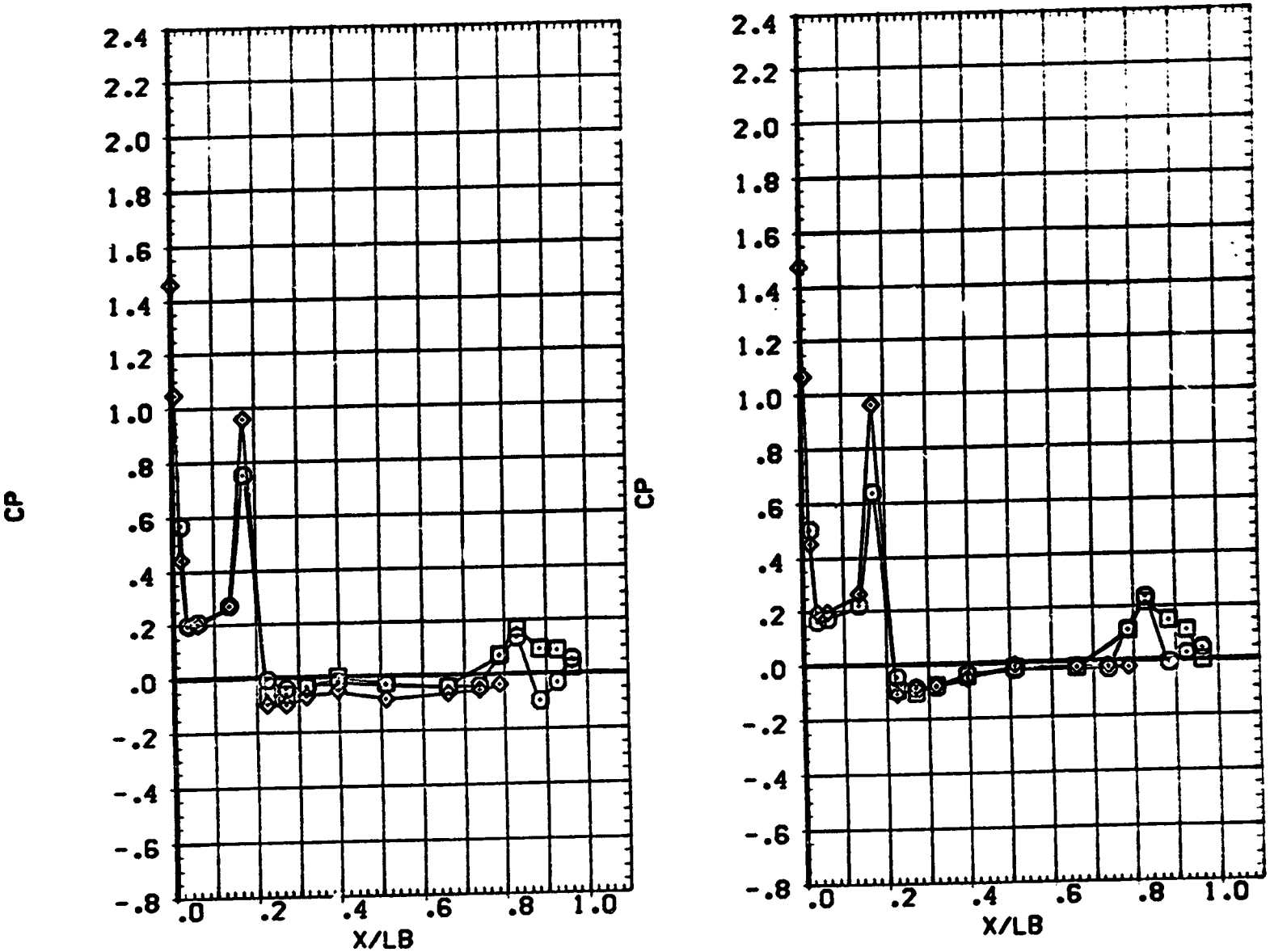
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB19)

SYMBOL	PHI	BETAT	MACH
	150.000	-4.180	2.499
	165.000	.060	
	180.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		



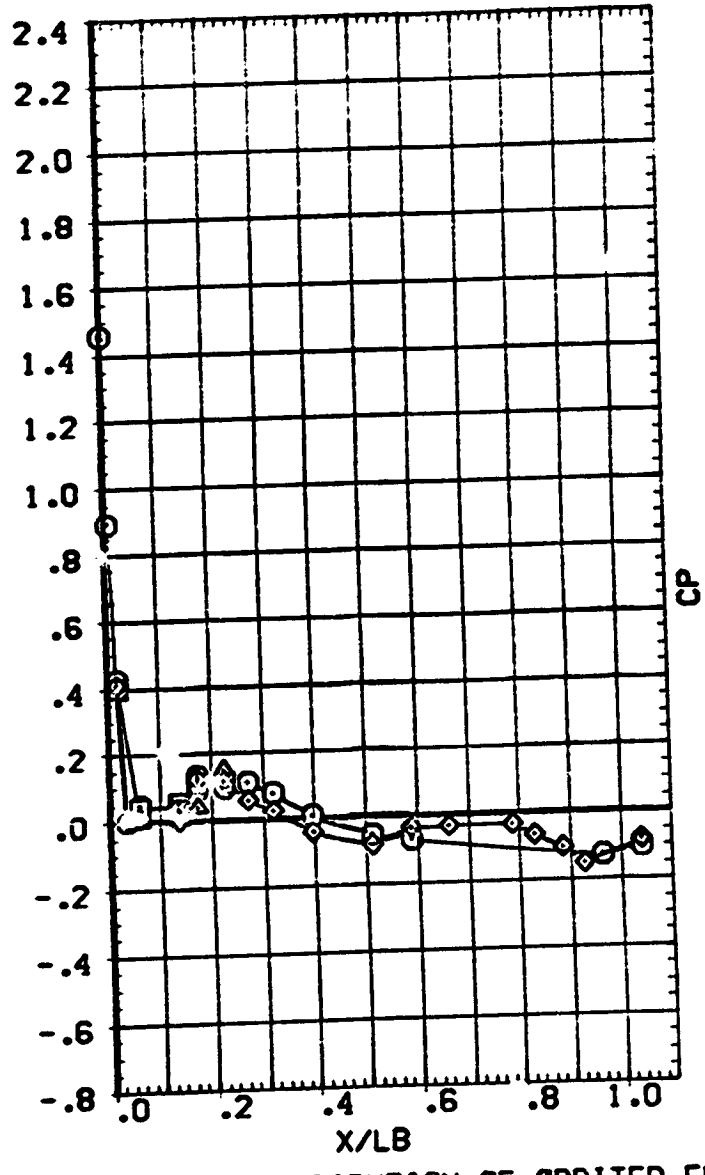
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

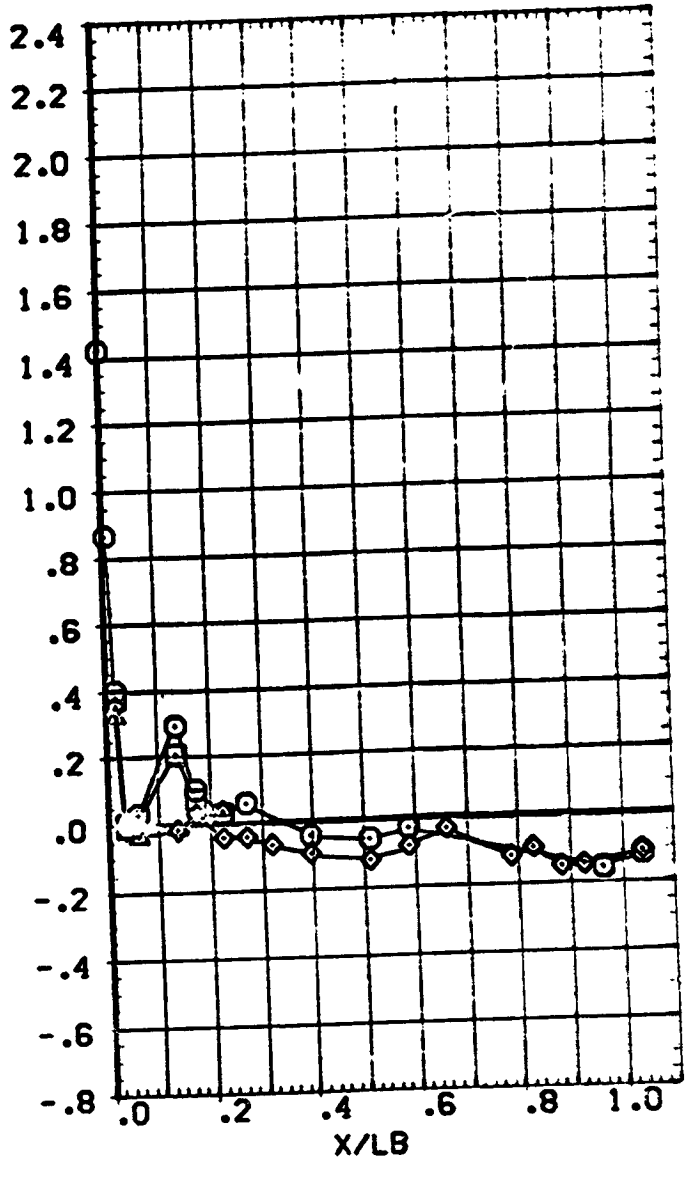
AYES 87-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBN319)

SYMBOL	PHI	BETAT	MACH
	.000	4.300	2.499
	20.000	8.550	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		





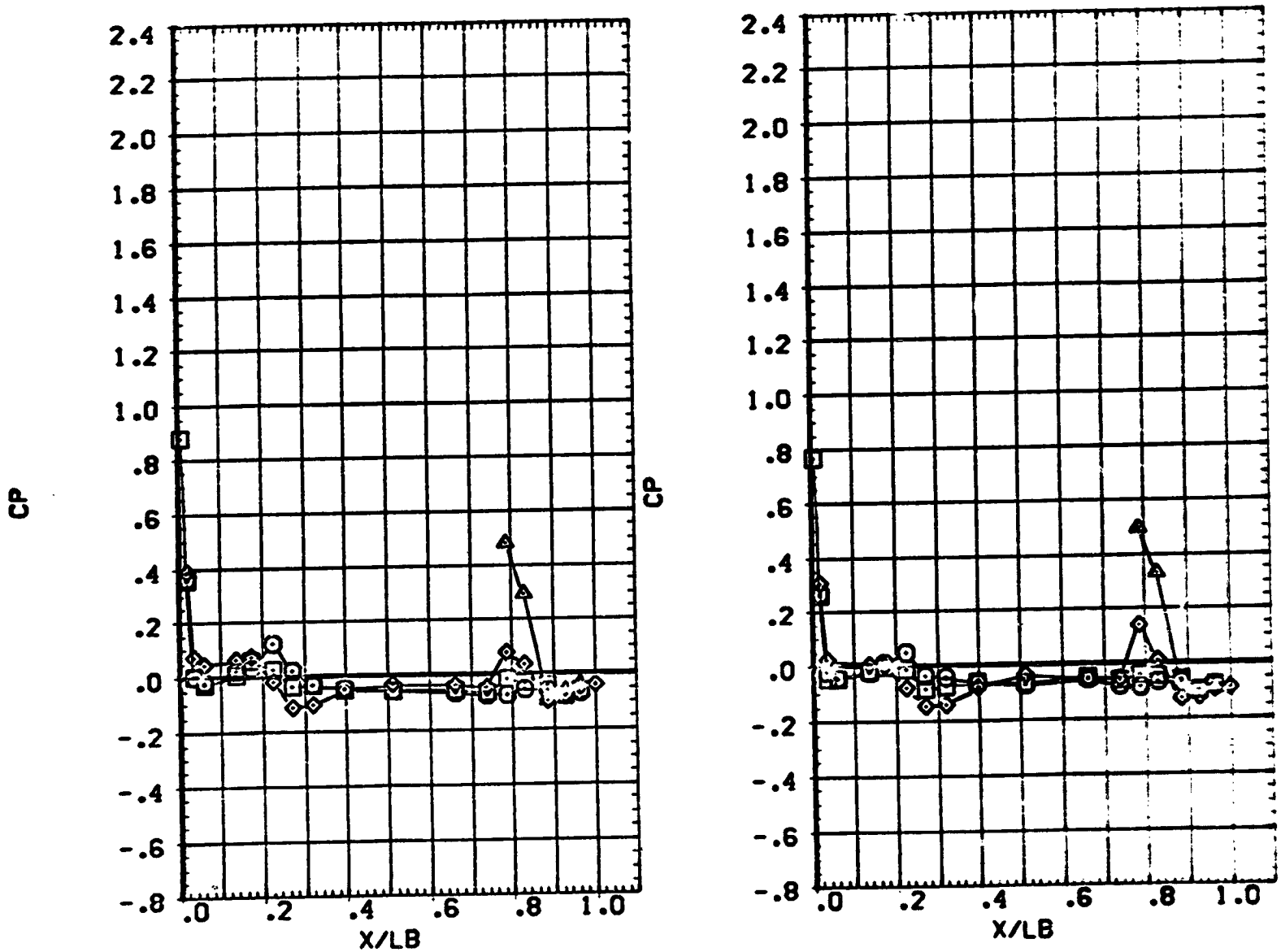
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB19)

SYMBOL	PHI	BETAT	MACH
○	70.000	4.300	2.499
□	90.000	8.550	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	BODY	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		



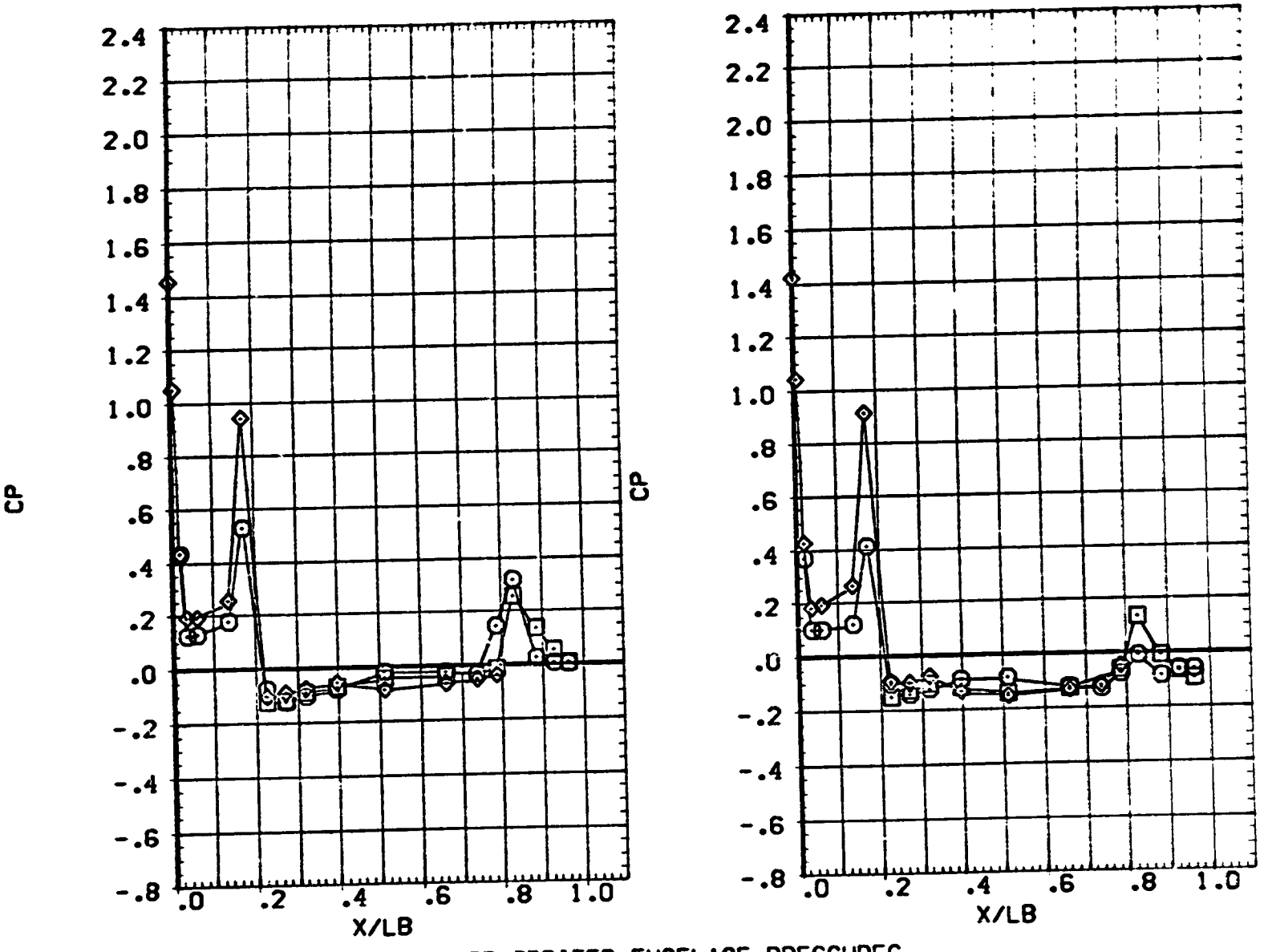
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBW3:9)

SYMBOL	PHI	BETA	MACH
◇	150.000	4.300	2.499
	165.000	8.550	
	180.000		

PARAMETRIC VALUES

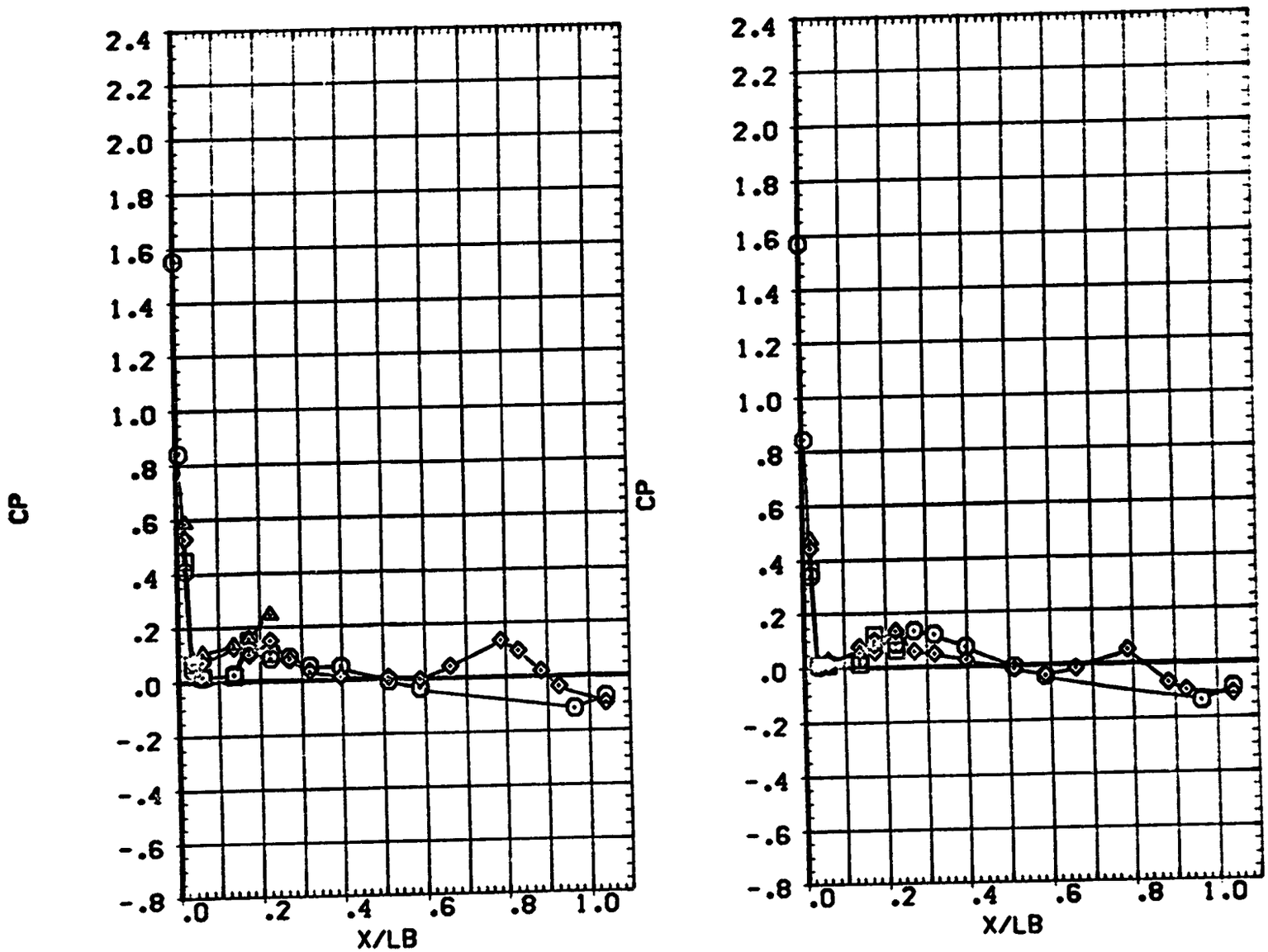
ALPHA	.000	BODY	.500
RUDDER	-10.000	ELEVON	.000
ROLL_R	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL	PHI	BETAT	MACH
○	.000	-4.260	2.999
□	20.000	.000	
◇	40.000		
△	55.000		

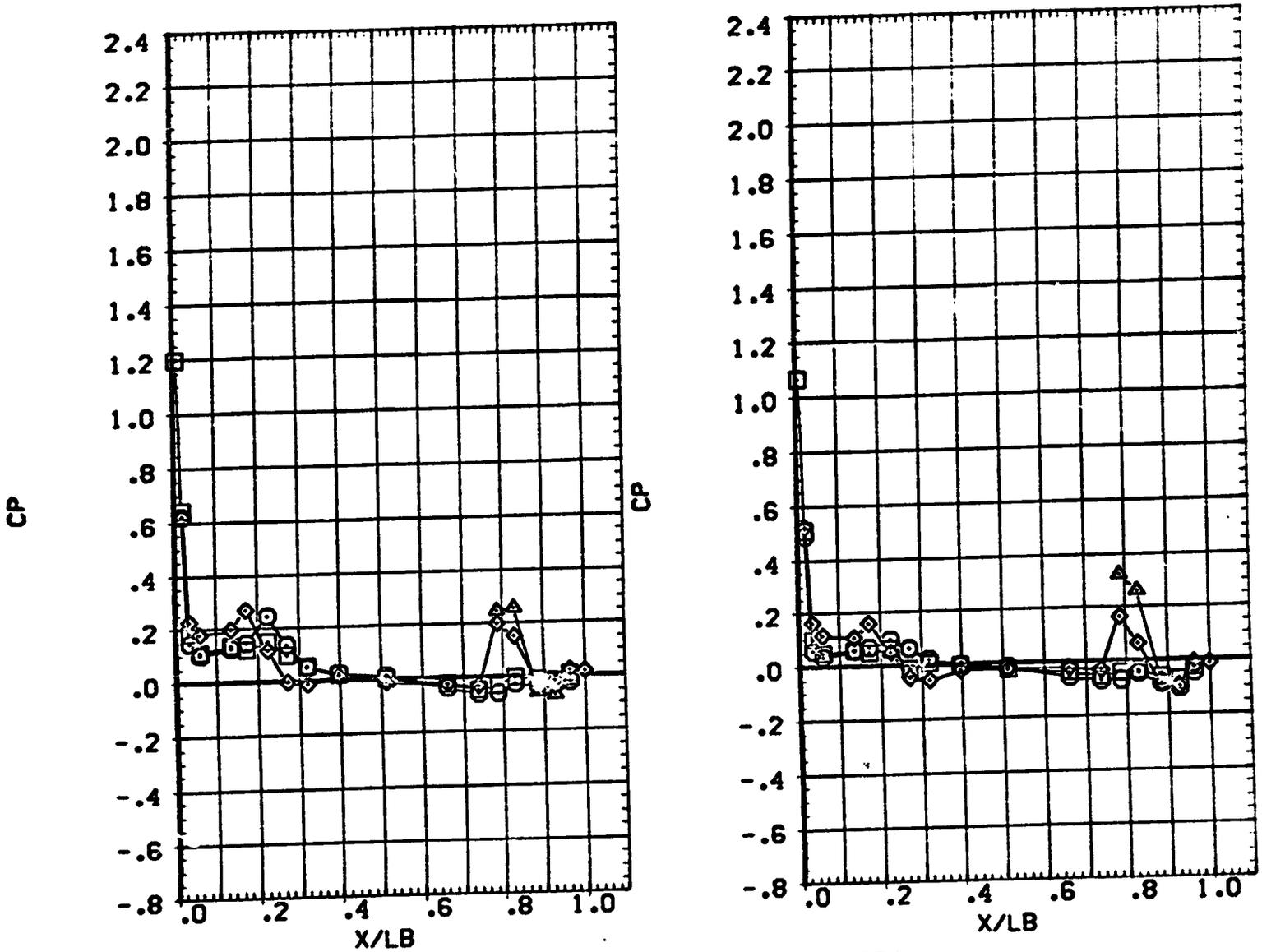
ALPHAT	.000	ORBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

○	70.000	-4.260	2.999
□	90.000	.060	
◇	120.000		
△	135.000		

RUDDER -10.000 ELEVON .000
RUDLR .000

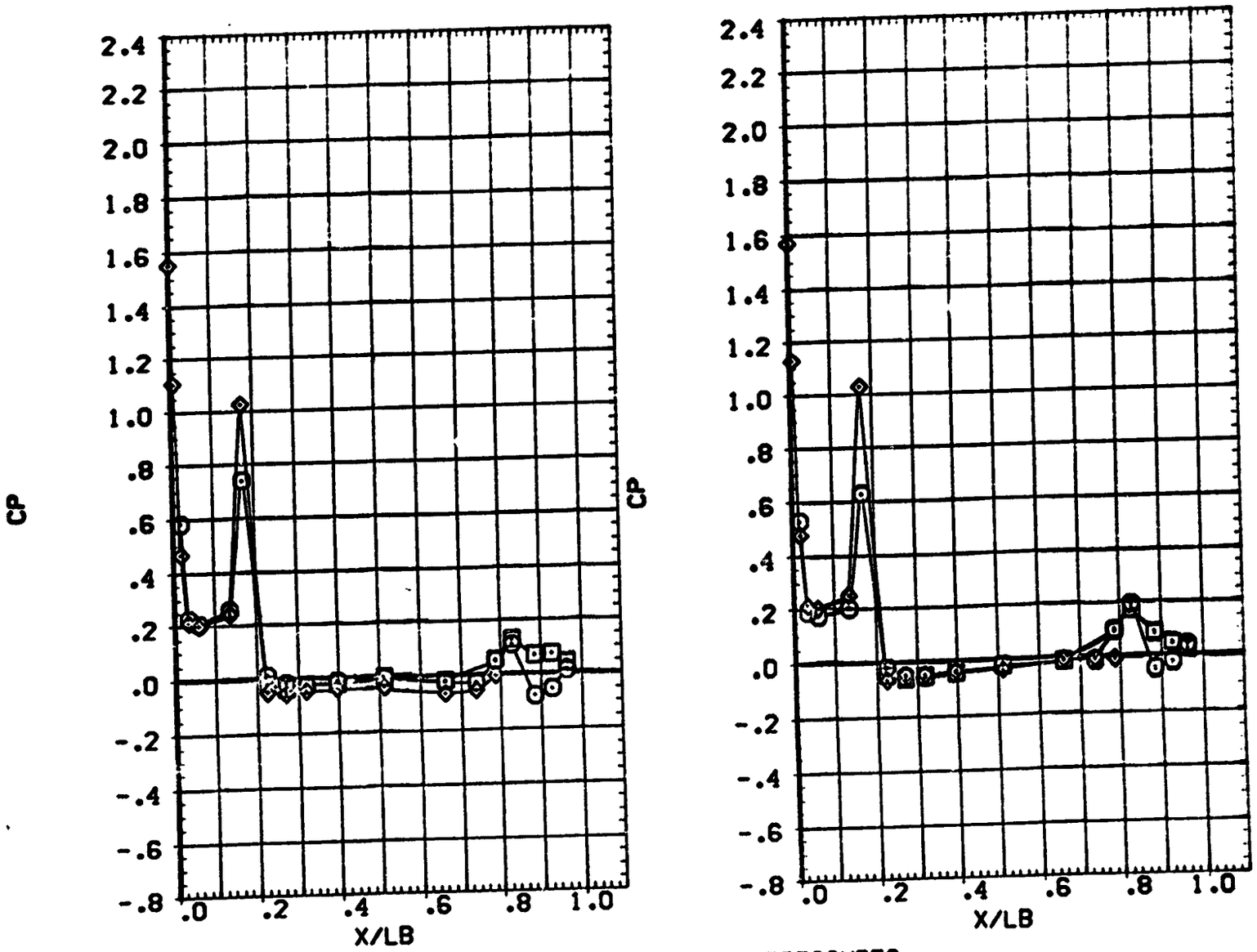


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

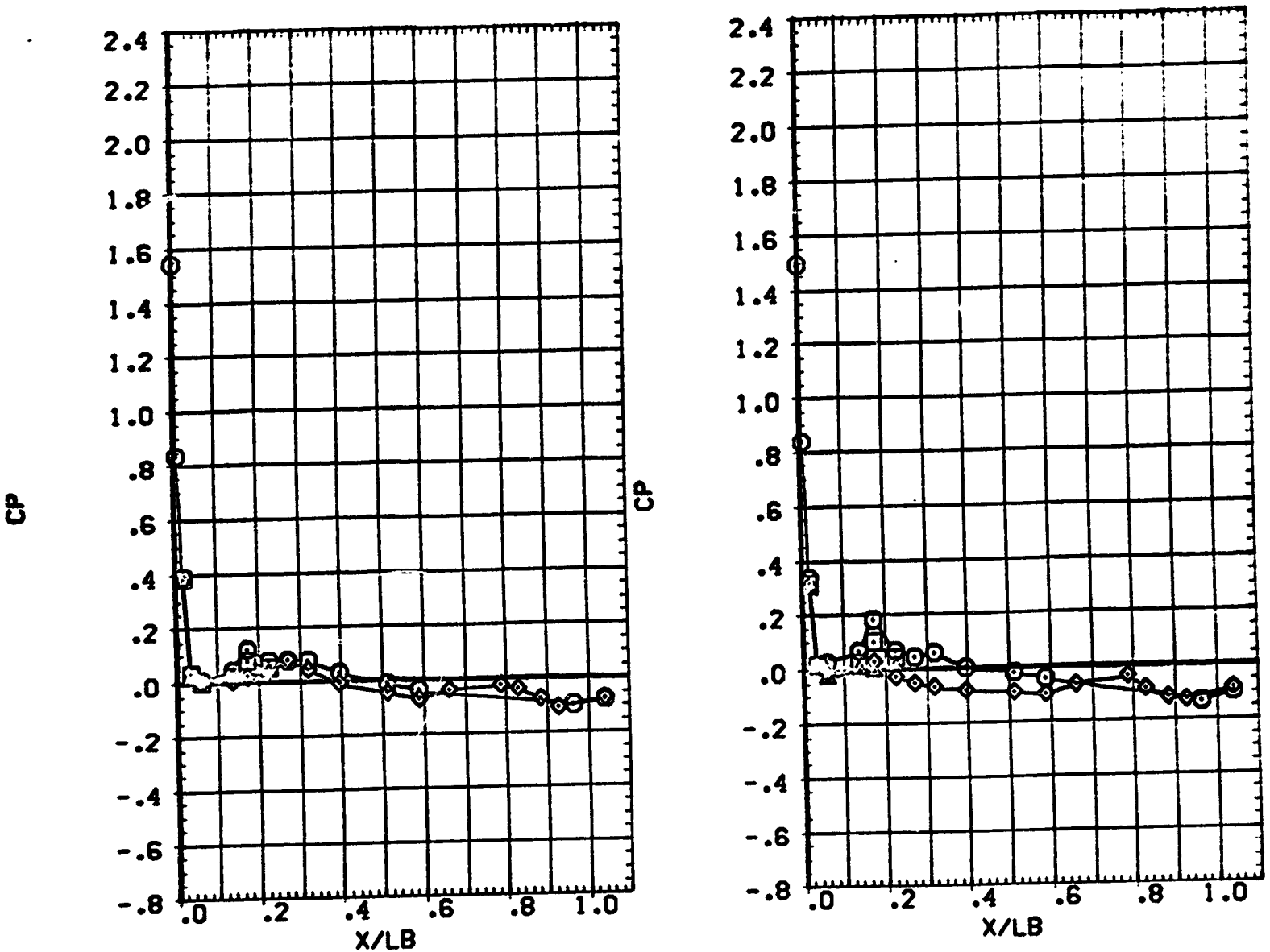
SYMBOL	PHI	BETAT	MACH
◇	150.000	-4.260	2.999
□	165.000	.060	
◇	180.000		

PARAMETRIC VALUES

ALPHAT	1.000	ORBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

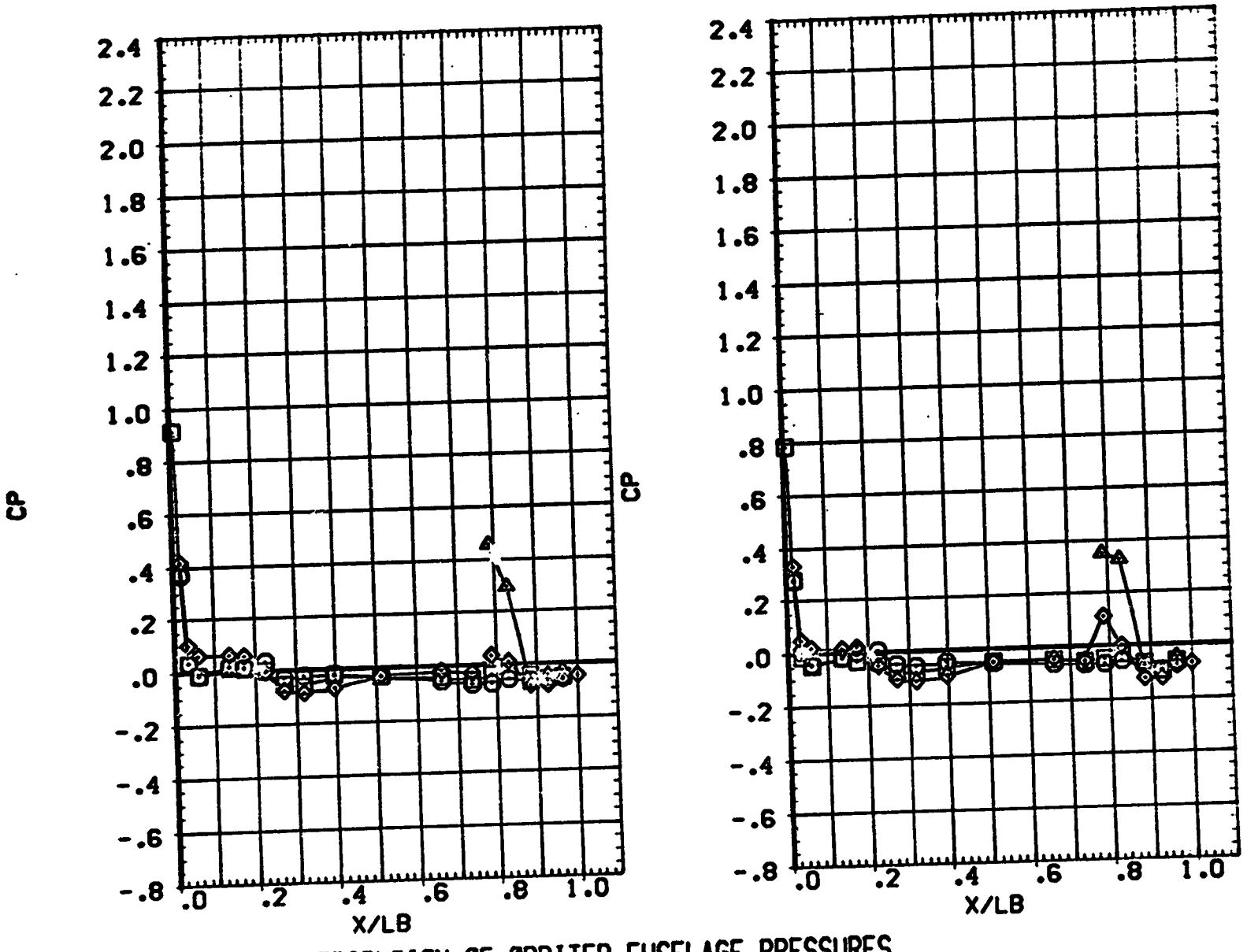


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL	PHI	BETAT	MACH
○	70.000	4.380	2.999
□	90.000	8.710	
◇	120.000		
△	135.000		

PARAMETRIC VALUES

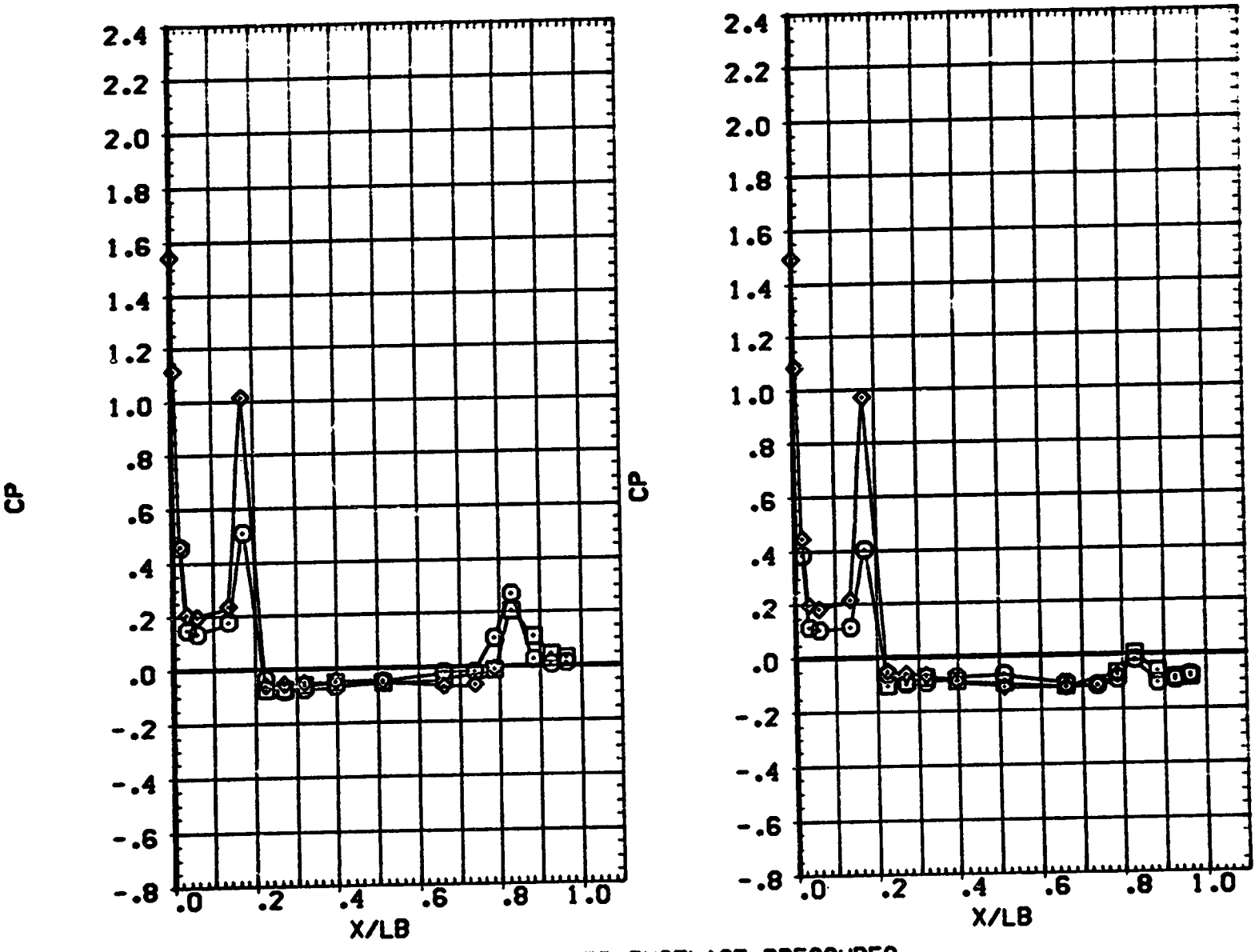
ALPHAT	.000	ORBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

◇ 165.000 8.710
◇ 180.000

RUDFLR .000



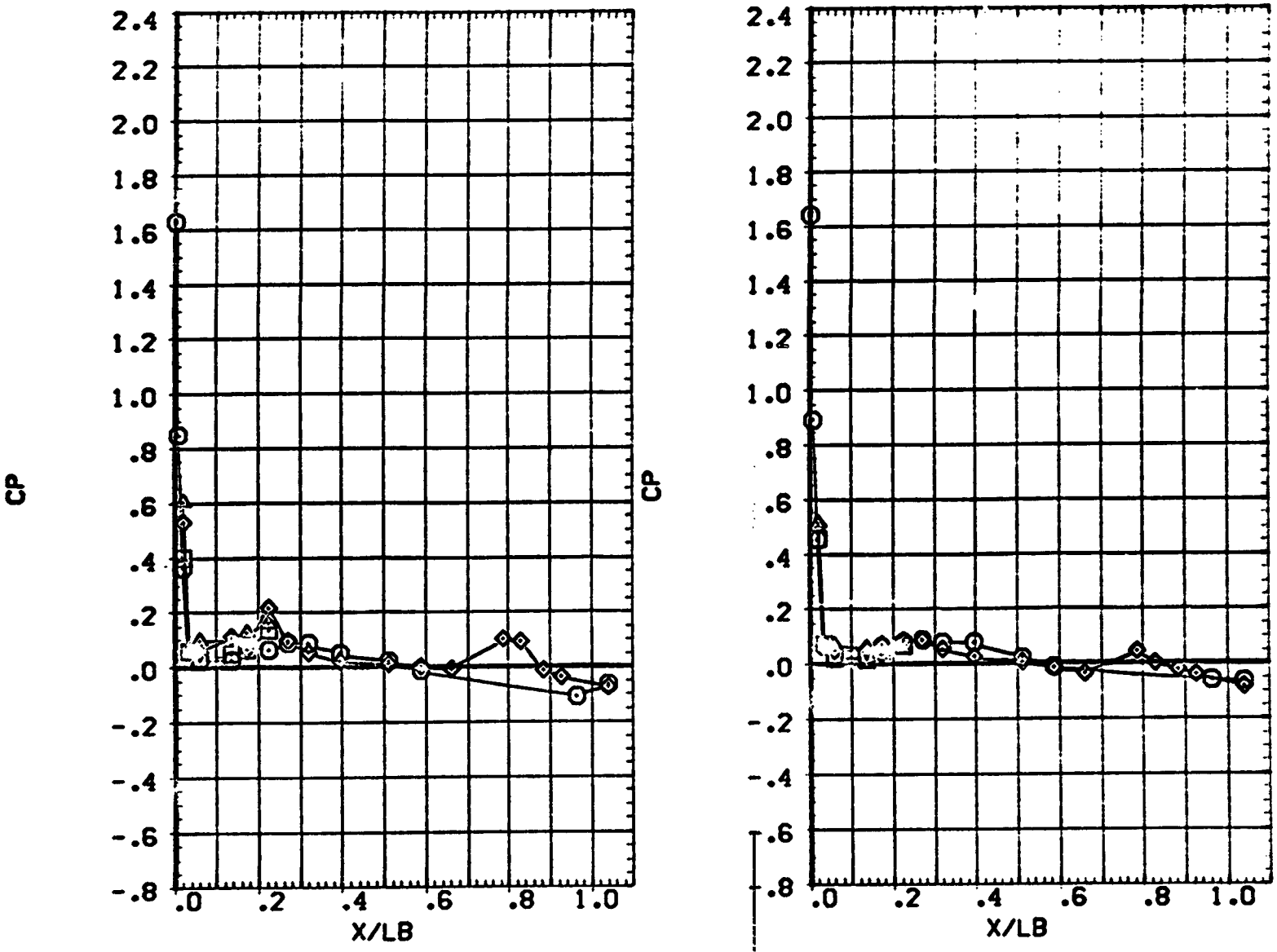
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RB\B:9)

SYMBOL	PHI	BETA	MACH
○	.000	-4.340	3.502
◇	20.000	.060	
△	40.000		
	55.000		

PARAMETRIC VALUES

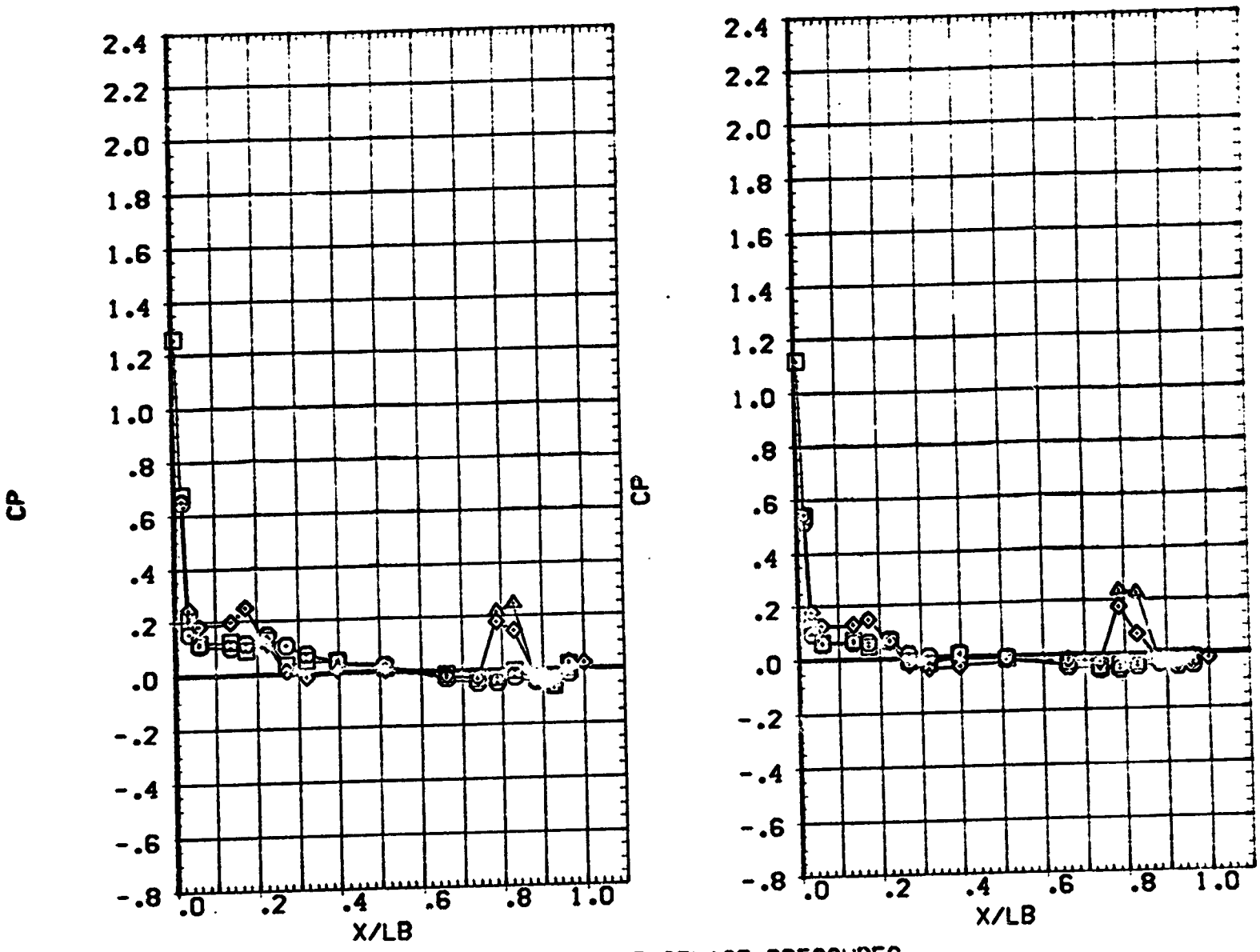
ALPHA	.000	ORBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDLR	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL	PHI	BETAT	MACH
□	70.000	-4.340	3.502
○	90.000	.000	
◇	120.000		
△	135.000		

ALPHAT	.000	ORBINC	.000
RUDDER	-10.000	ELEVON	.000
RUDDLR	.000		



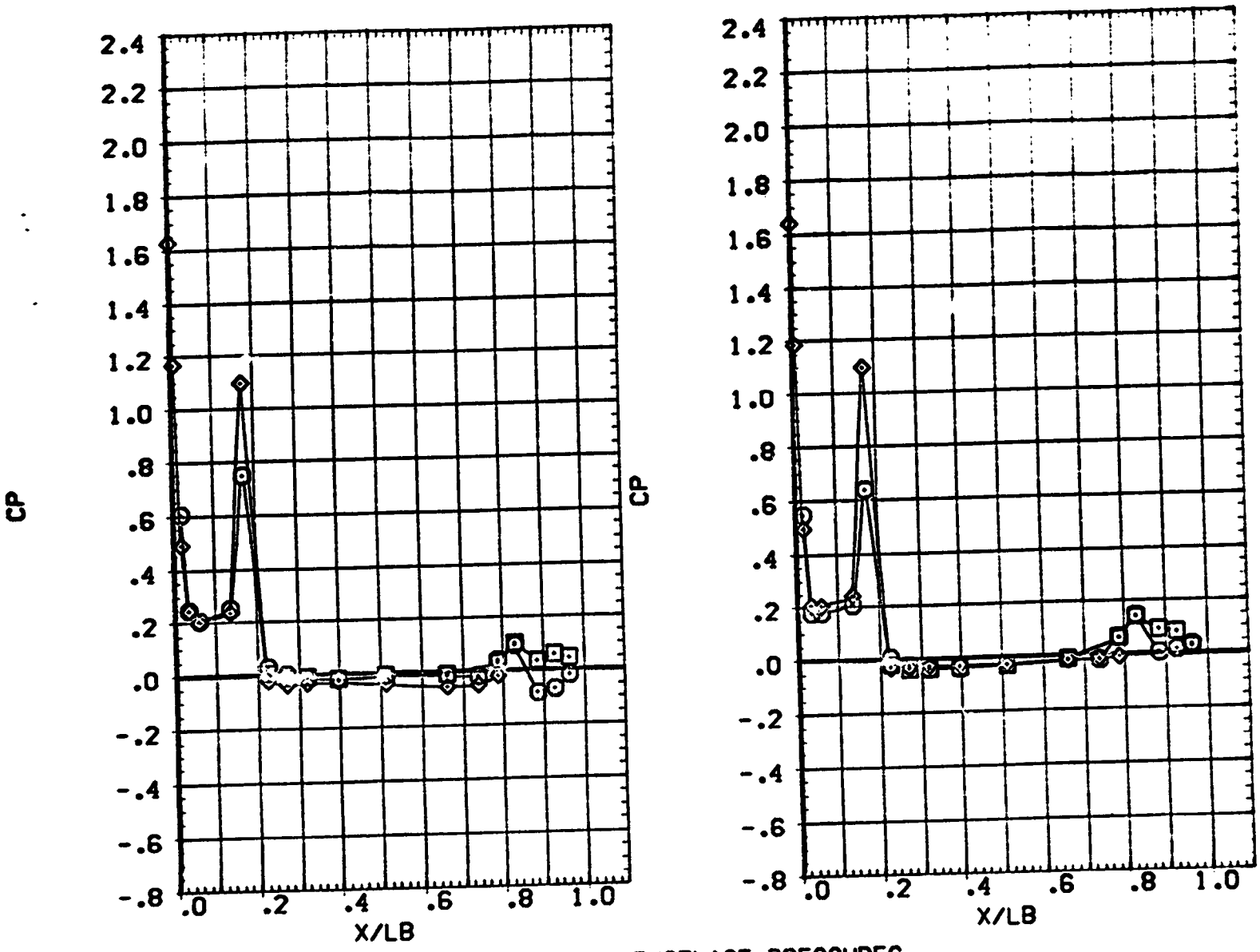
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 32A + S3 + T9 ORBITER FUSELAGE (RBVB:9)

SYMBOL	PHI	BETAT	MACH
○	:50.000	-4.340	3.507
□	:65.000	.060	
◇	:80.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-:0.000	ELEVON	.000
RUDFLR	.000		

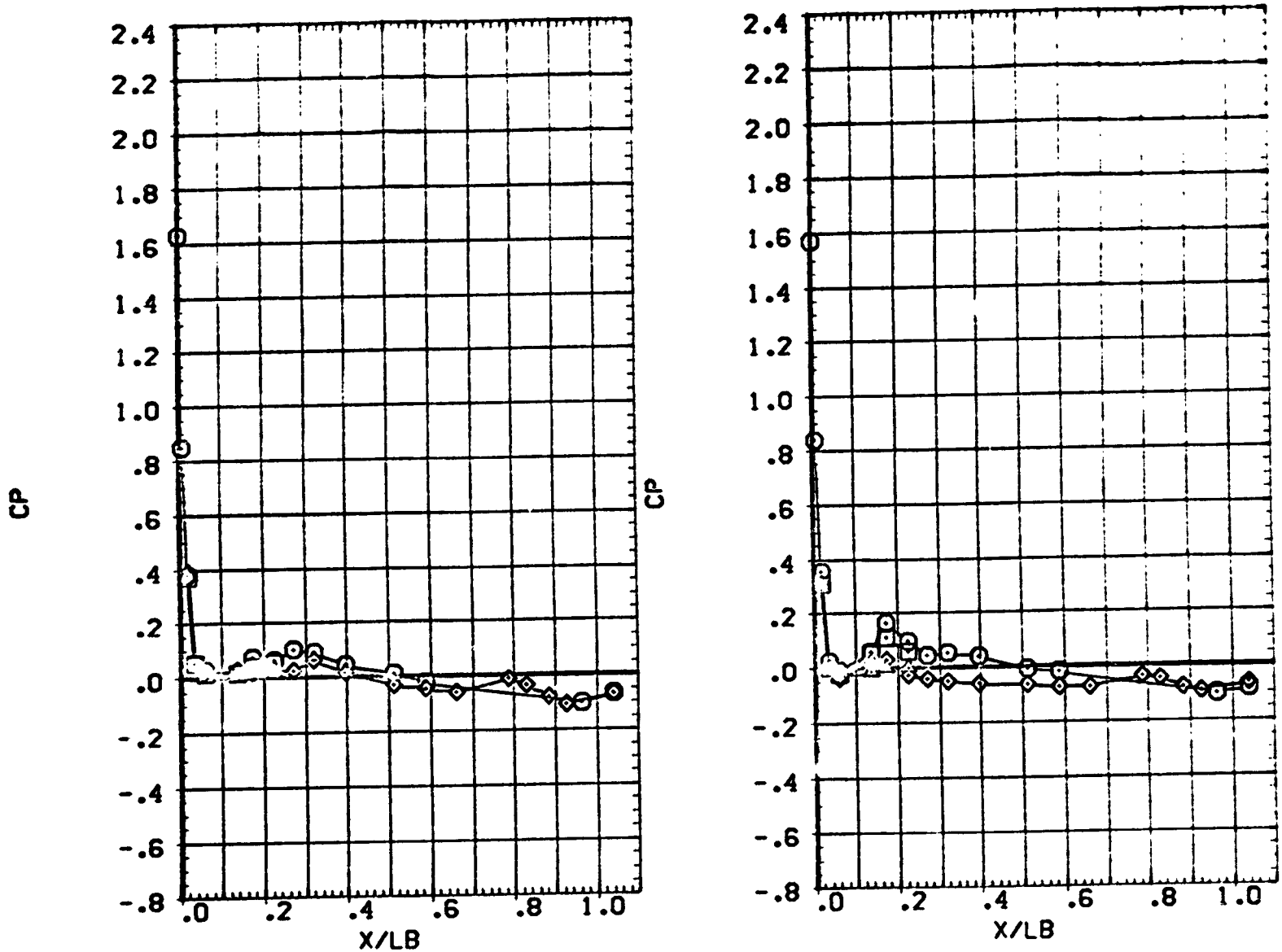


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL	PHI	BETA	MACH
○	.000	1.160	3.502
□	20.000	8.860	
◇	40.000		
△	55.000		

PARAMETRIC VALUES

ALPHAT	.000	SPEED	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		



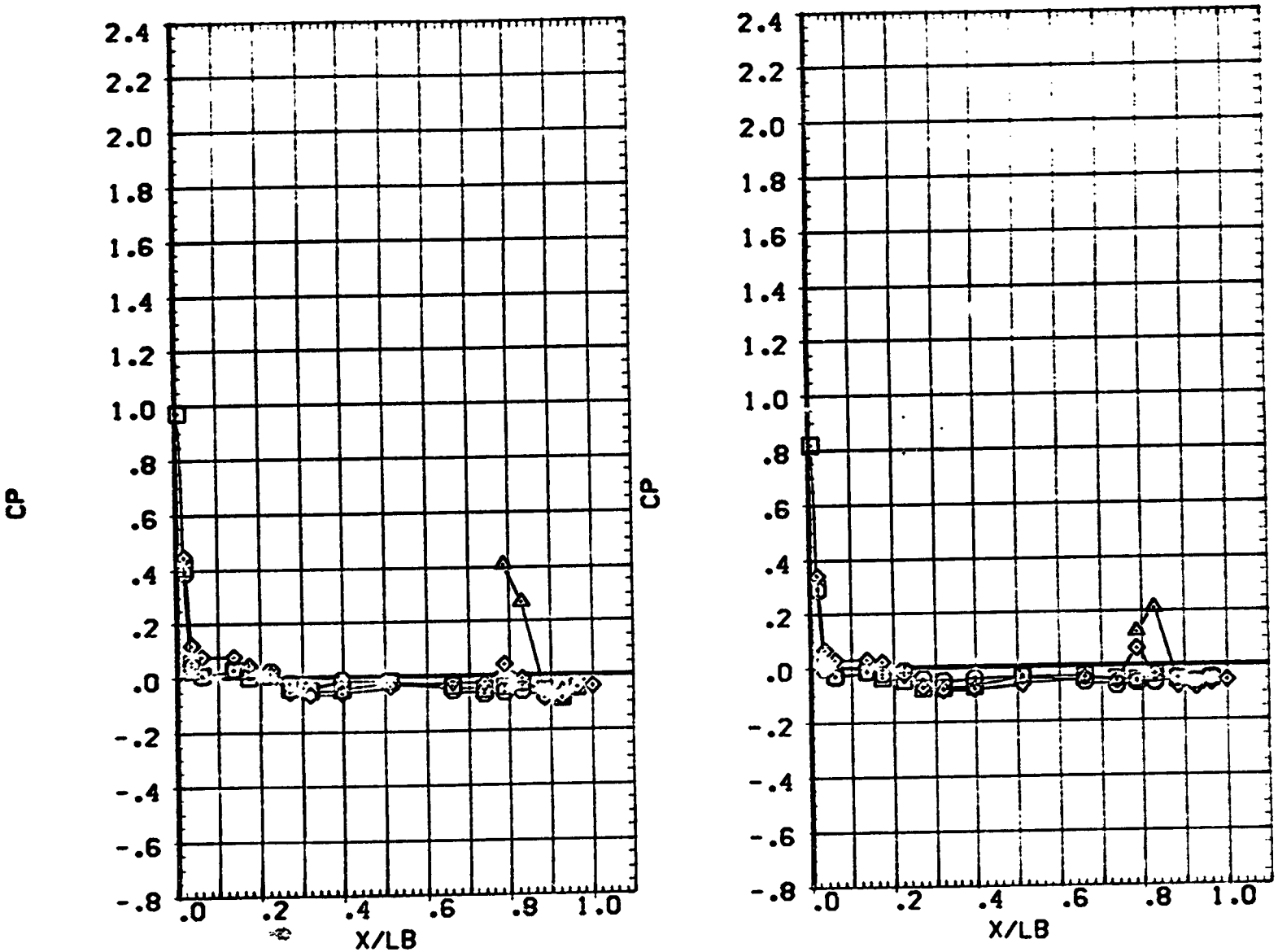
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 (A9 C2A + S3 + T9 ORBITER FUSELAGE (RBN3:9)

SYMBOL	PHI	BETA	MACH
○	70.0000	4.460	3.502
□	90.0000	8.860	
◇	120.0000		
△	135.0000		

PARAMETRIC VALUES

ALPHAT	.0000	ORBINC	.5000
RUDDER	-10.0000	ELEVON	.0000
RUDDLR	.0000		



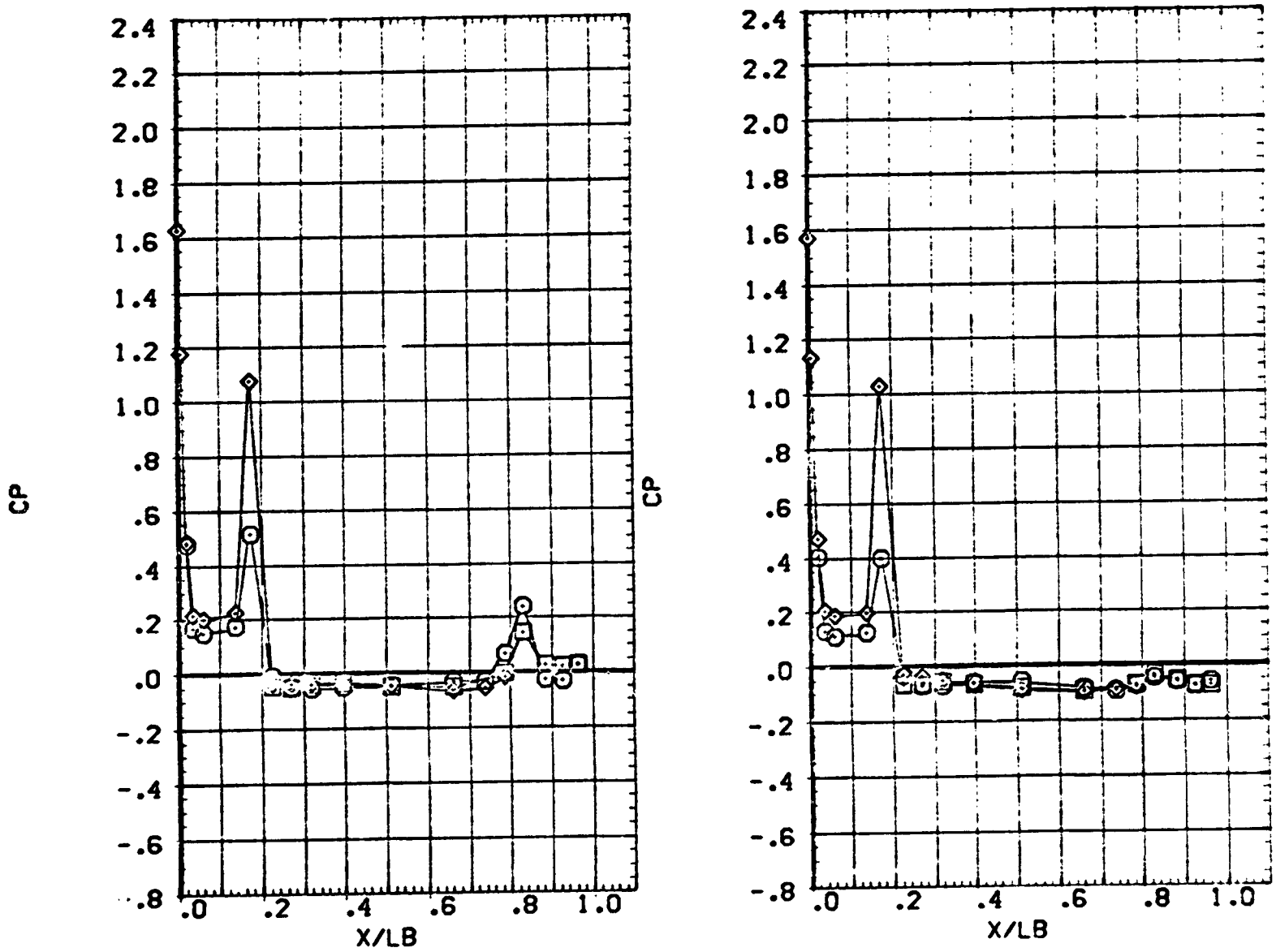
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 ;A9 C2A - S3 - '9 ORBITER FUSELAGE (RB\B!9)

SYMBOL	PHI	BETA	MACH
○	150.000	4.450	3.507
◇	165.000	8.860	
◇	180.000		

PARAMETRIC VALUES

ALPHA	.000	ORBINC	.500
ROCEP	-10.000	ELEVN	.000
RUDLR	.000		



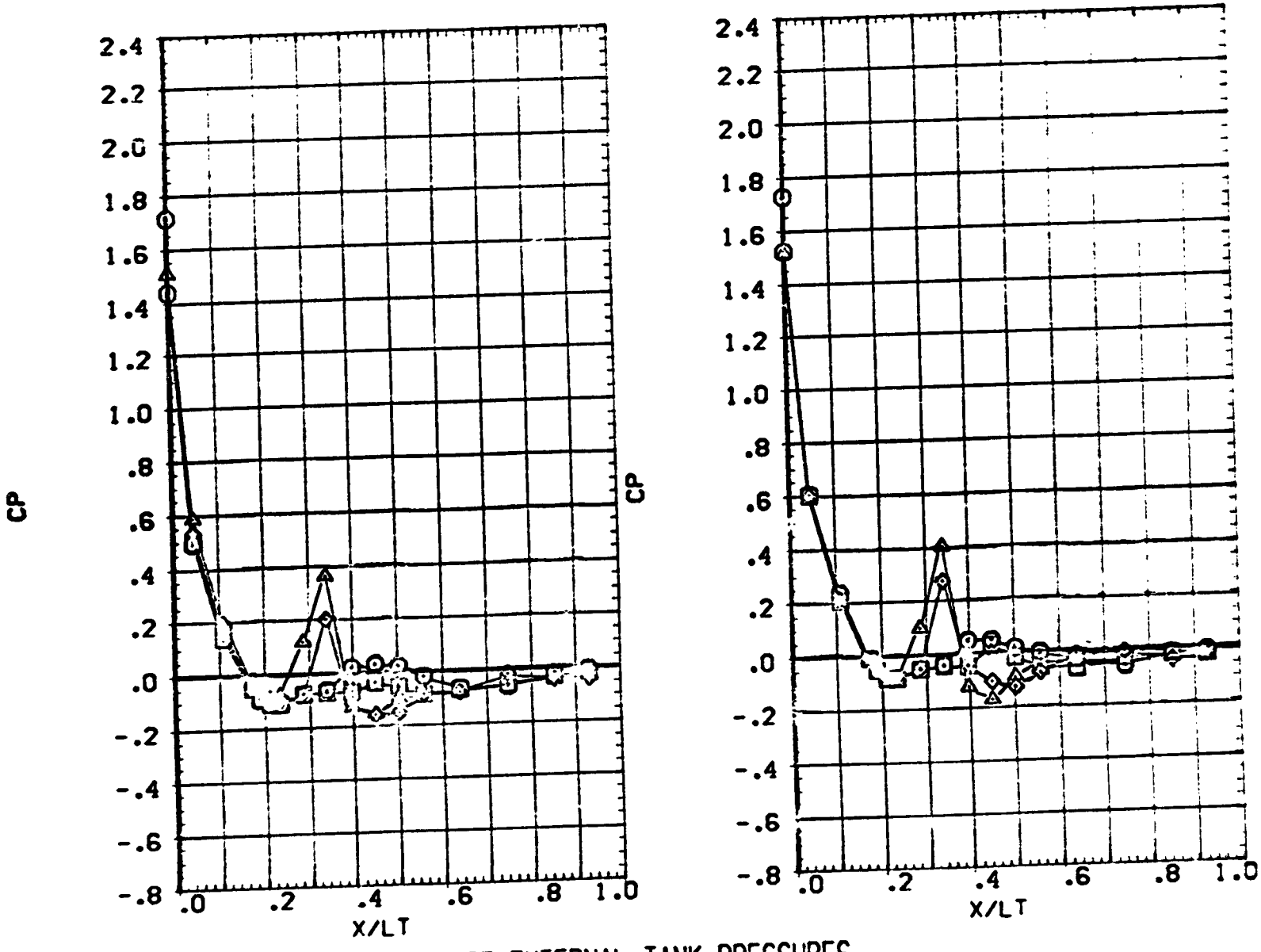
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE-PRESSURES

AVES 87-707 :A9 02A + S3 + T9 EXTERNAL TANK (RBNT01)

SYMBOL	PHI	ALPHA	MACH
○	.000	-4.030	2.498
▷	30.000	.000	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

BETAT	.000	DPHIC	.500
RUDDER	.000	ELEVN	.000
RUDFLR	.000		

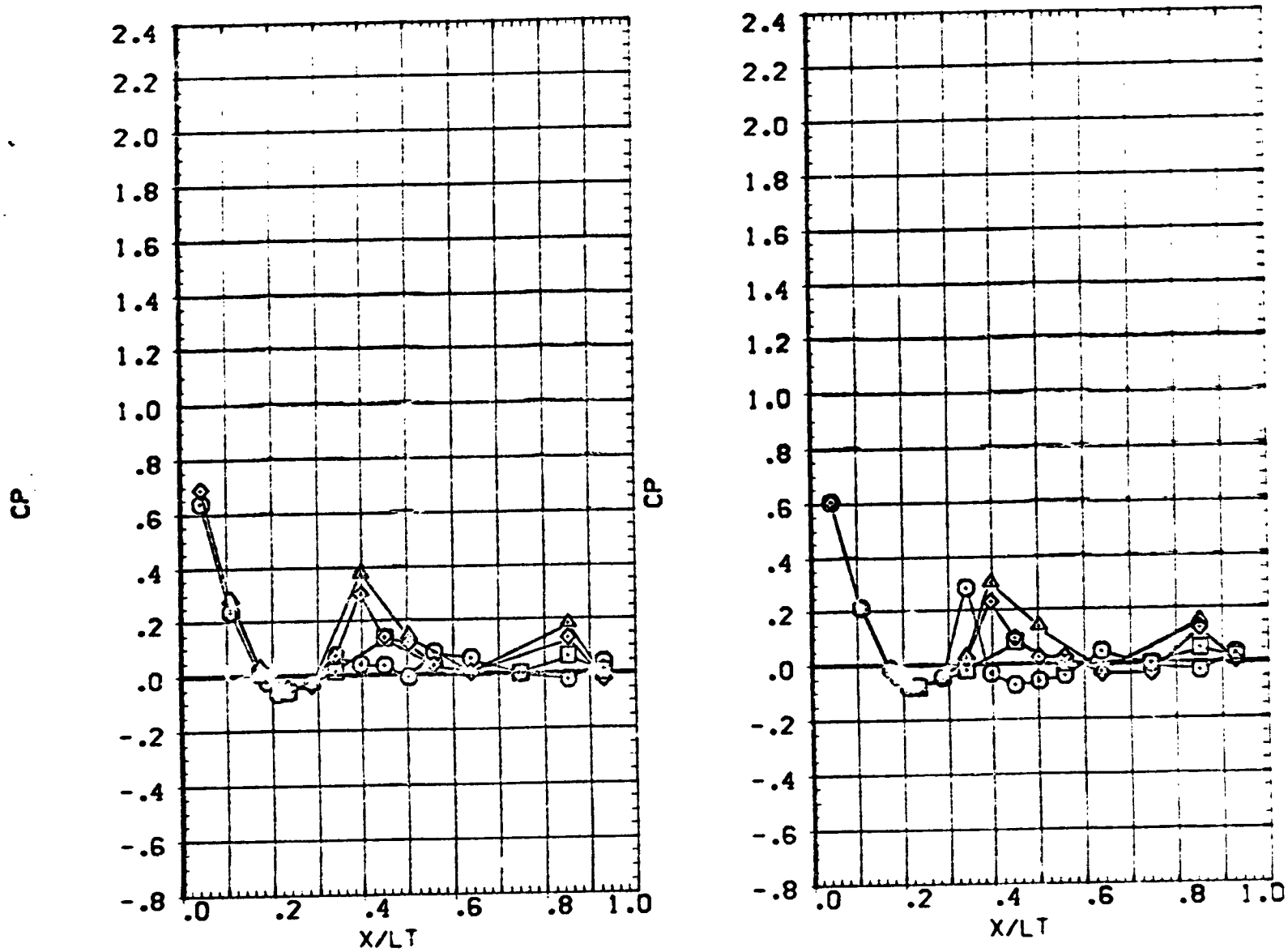


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL	PHI	ALPHAT	MACH
○	120.000	-4.030	2.499
□	135.000	.000	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

BETAT	.000	[illegible]	.500
RUDDER	.000	ELEVON	.000
ROLLR	.000		



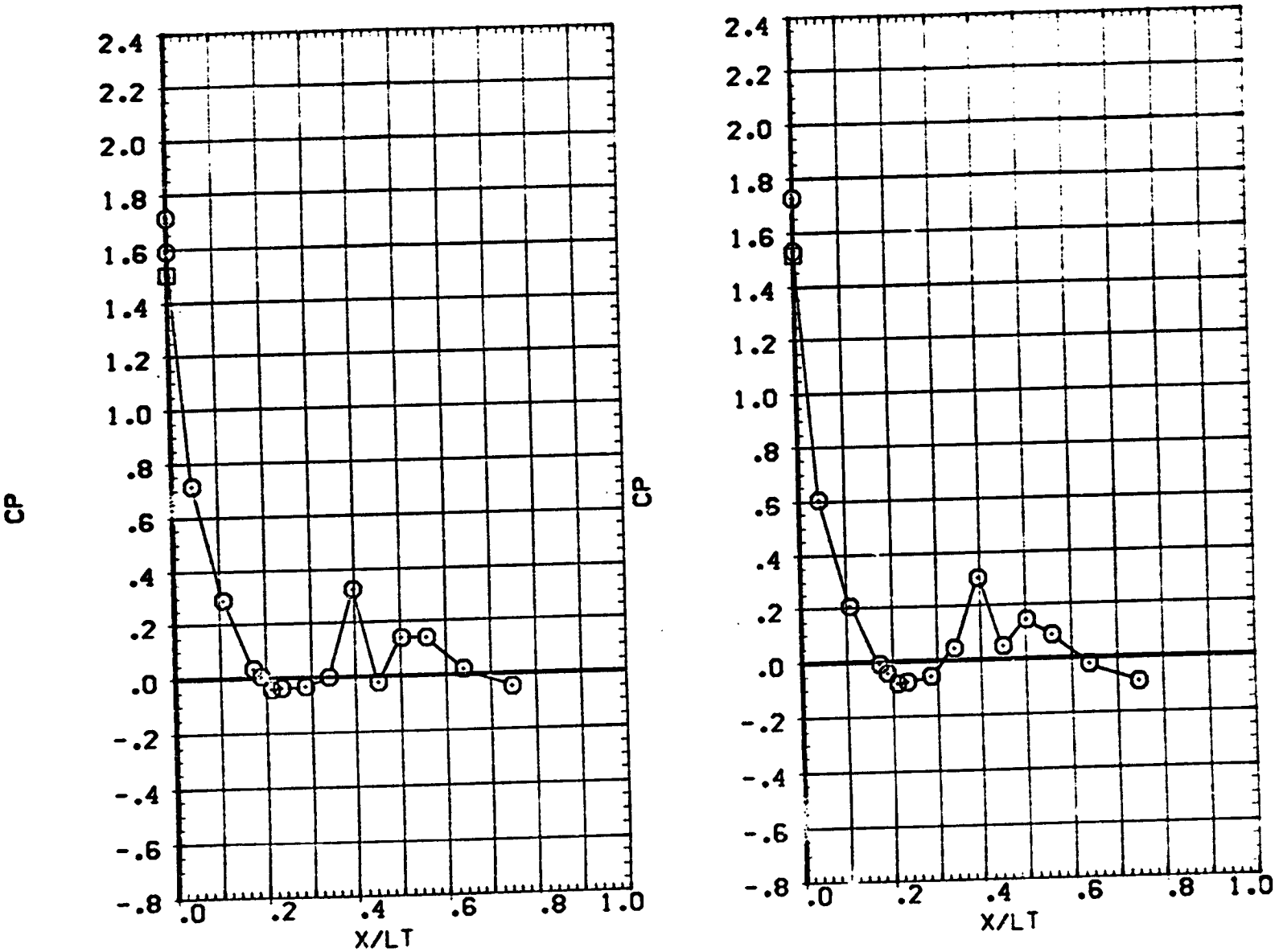
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 :A9 C7A + S3 + T9 EXTERNAL TANK (RBVTO::)

SYMBOL	PHI	ALPHAT	MACH
○	180.000	-4.030	2.498
□	270.000	.000	

PARAMETRIC VALUES

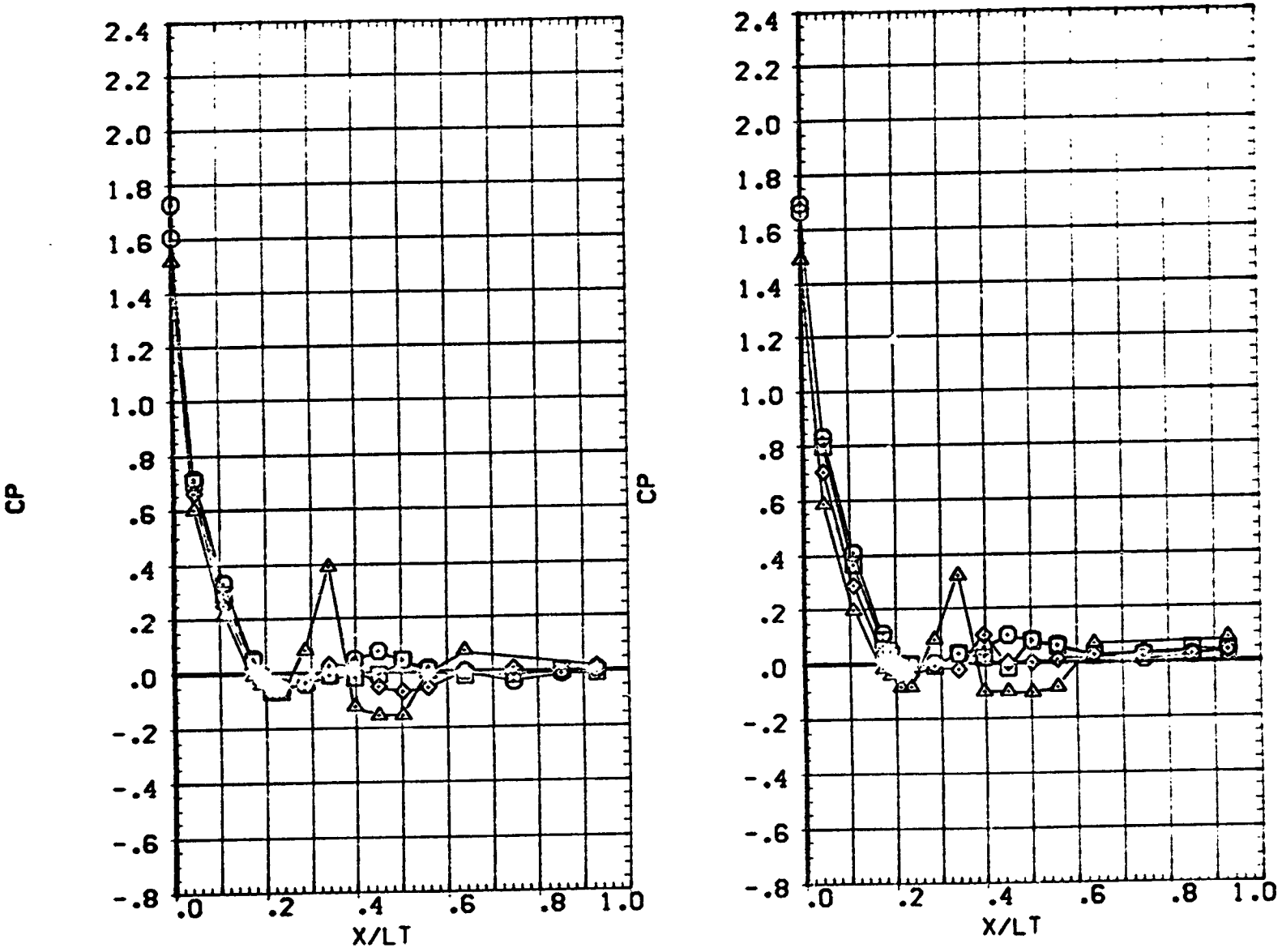
BETA	.000	SPOILR	.500
RUDDER	.000	ELEVON	.000
ROLLR	.000		



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL	PHI	ALPHA	MACH
○	.000	3.900	2.498
□	30.000	8.010	
◇	60.000		
△	90.000		

BETAT	.000	[illegible]	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



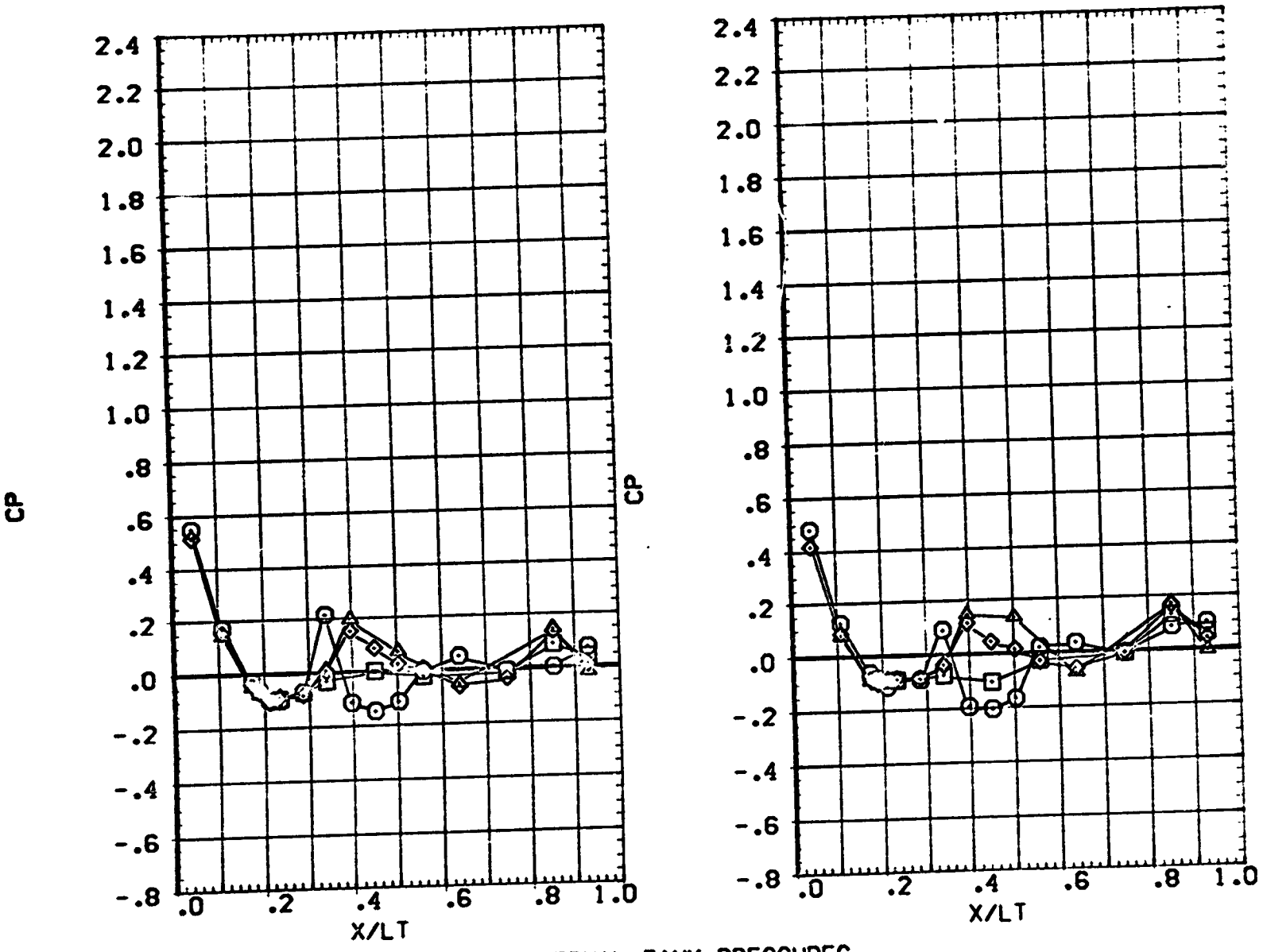
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AYES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBNTO:)

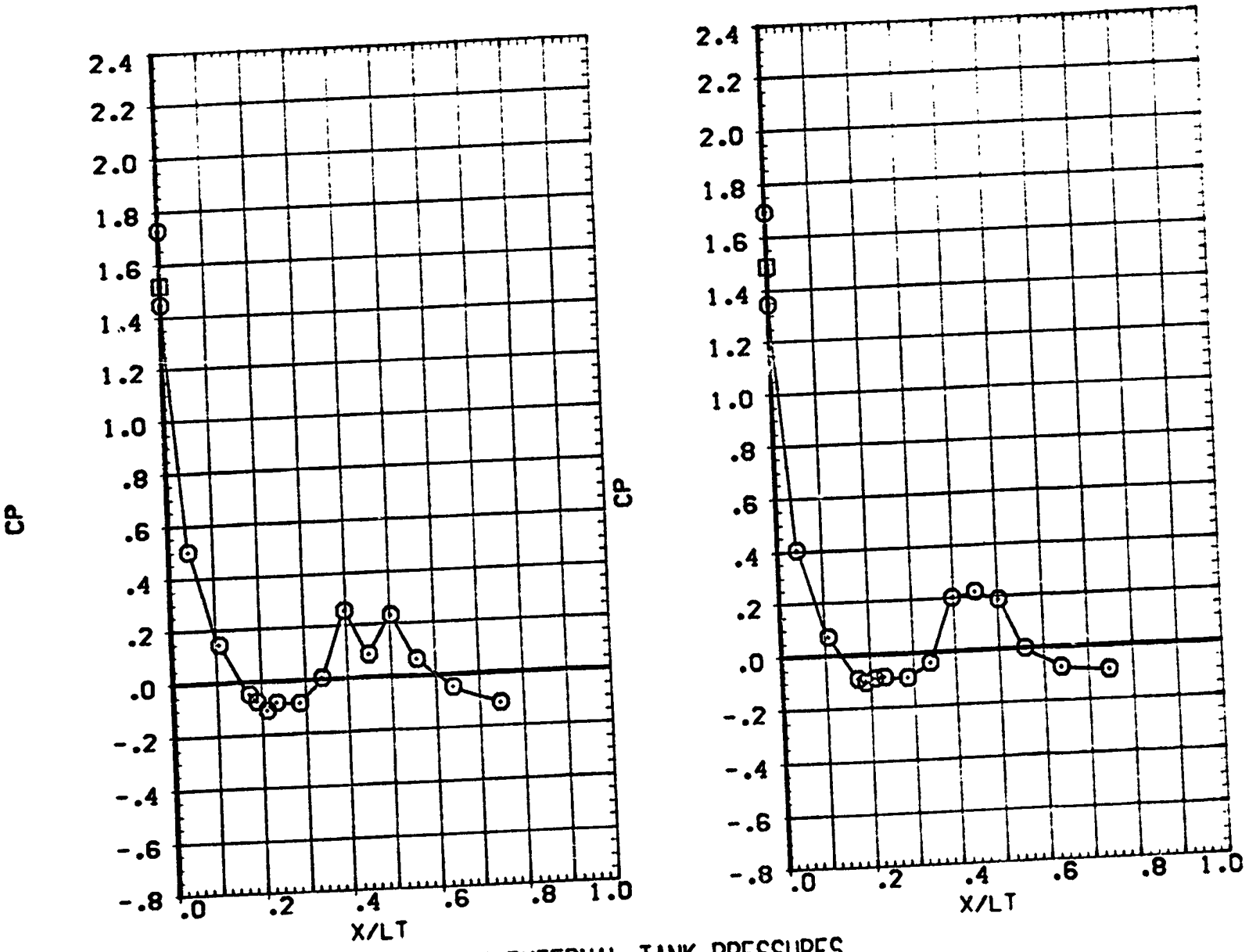
SYMBOL	PHI	ALPHA	MACH
○	120.000	3.900	2.498
□	135.000	8.010	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

BETAT	.000	DRGINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



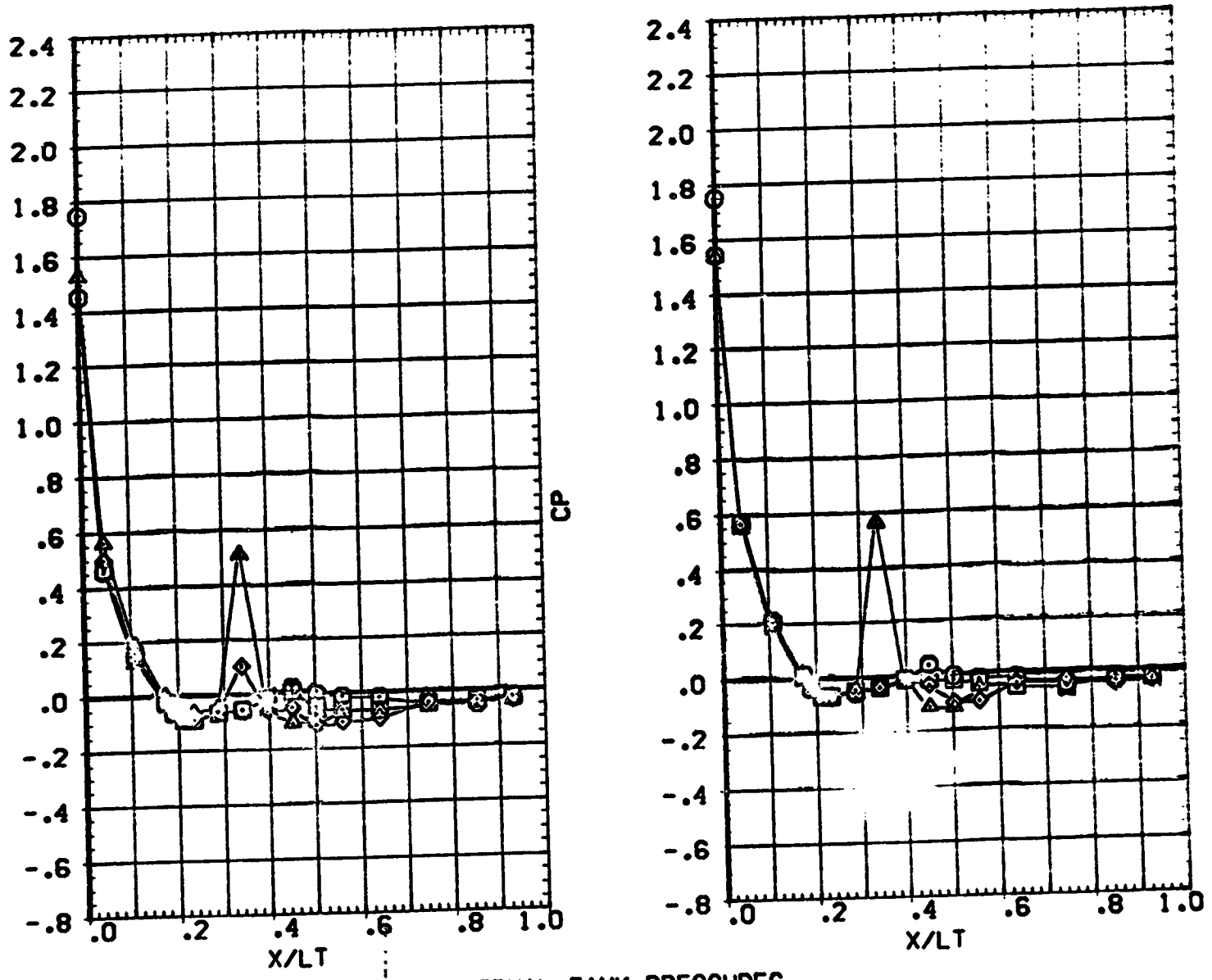
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBN

SYMBOL	PHI	ALPHAT	MACH
○	.000	-4.070	7.999
□	30.000	-.010	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

BETAT	.000	DRIVE	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

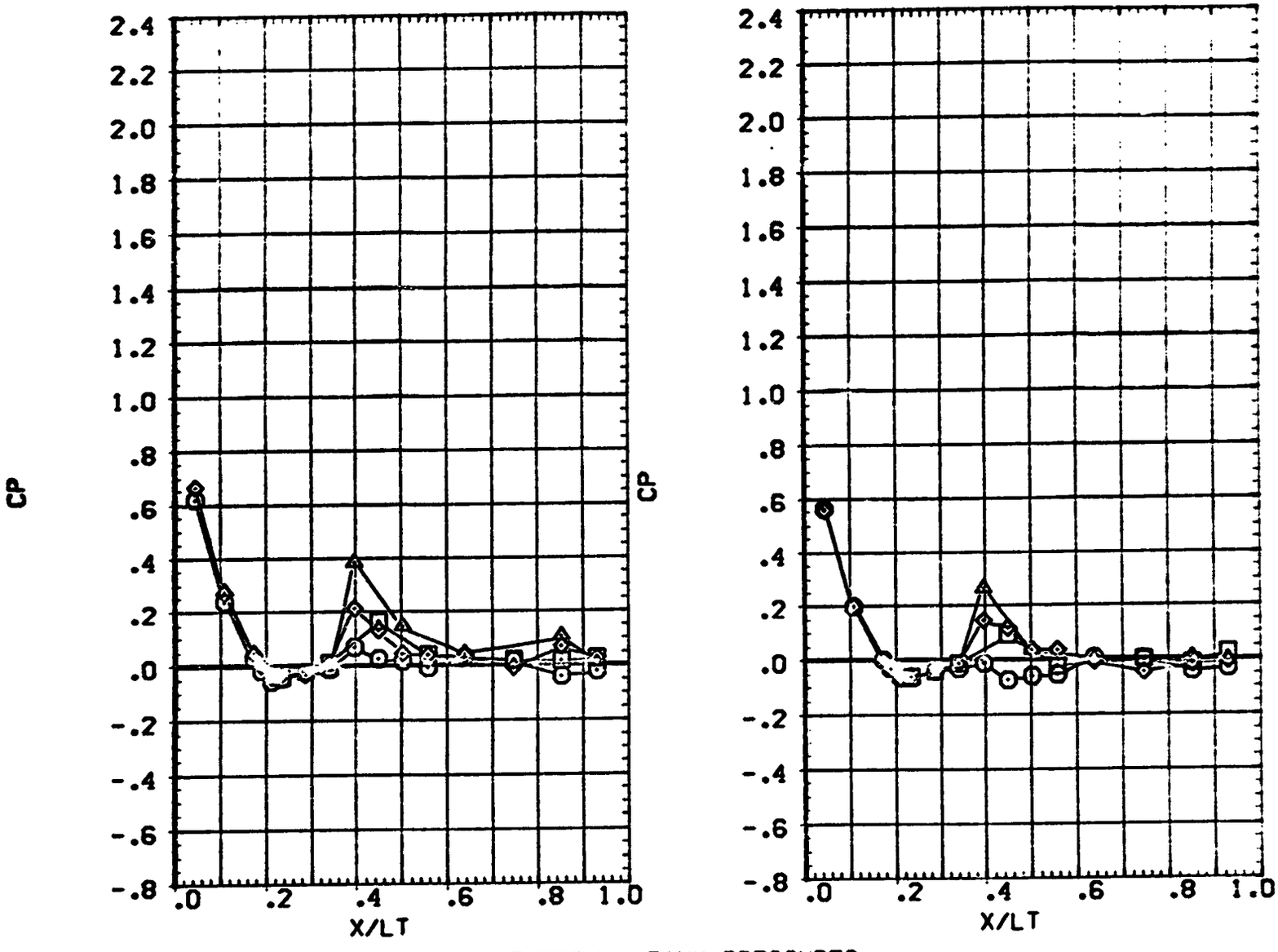


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL	PHI	ALPHAT	MACH
○	120.000	-4.070	2.999
□	135.000	-.010	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

BETAT	.000	SPEAC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



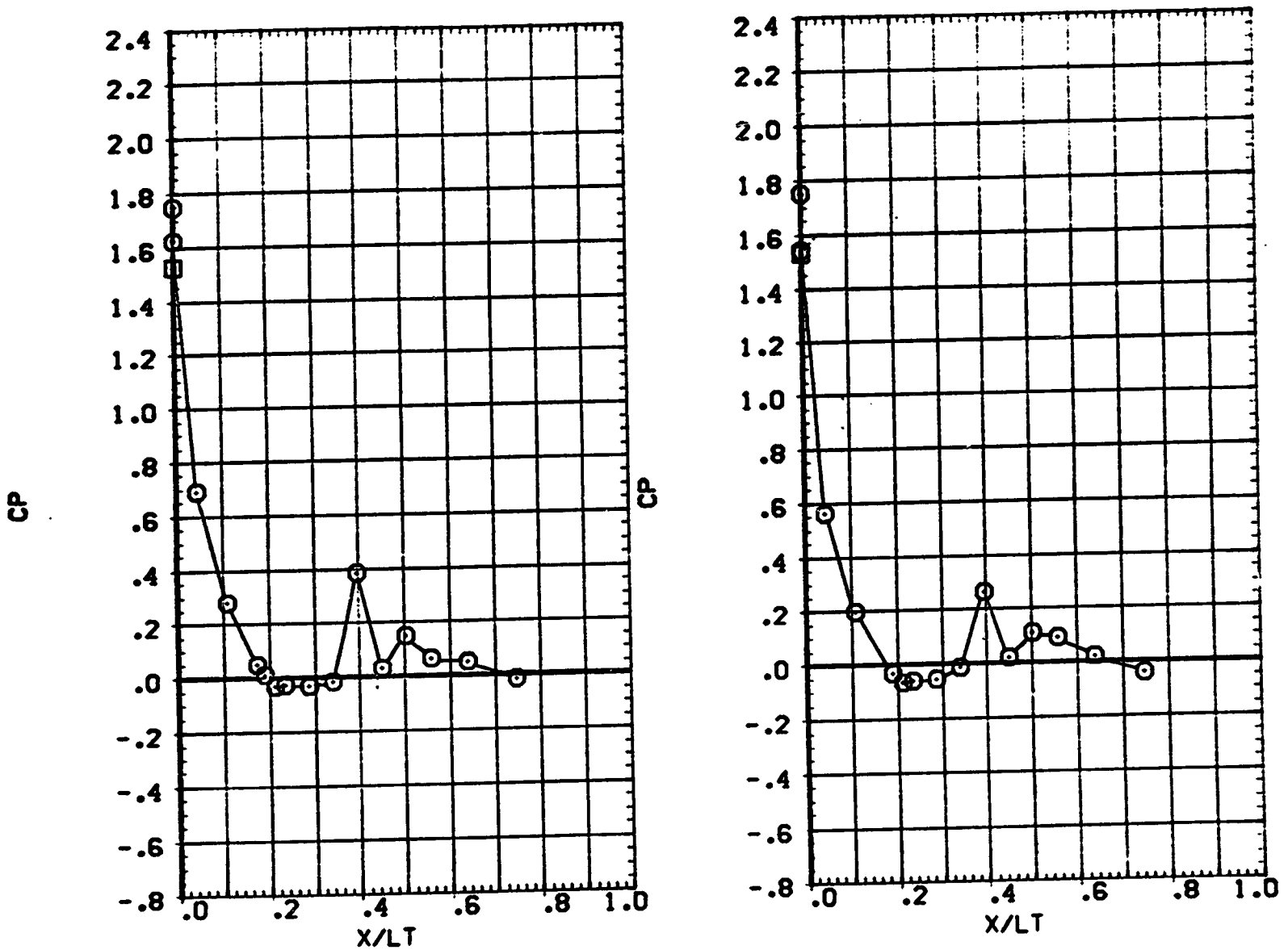
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBNTO1)

SYMBOL	PHI	ALPHAT	MACH
○	180.000	-4.070	2.999
□	270.000	-.010	

PARAMETRIC VALUES

BETAT	.000	ORGINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

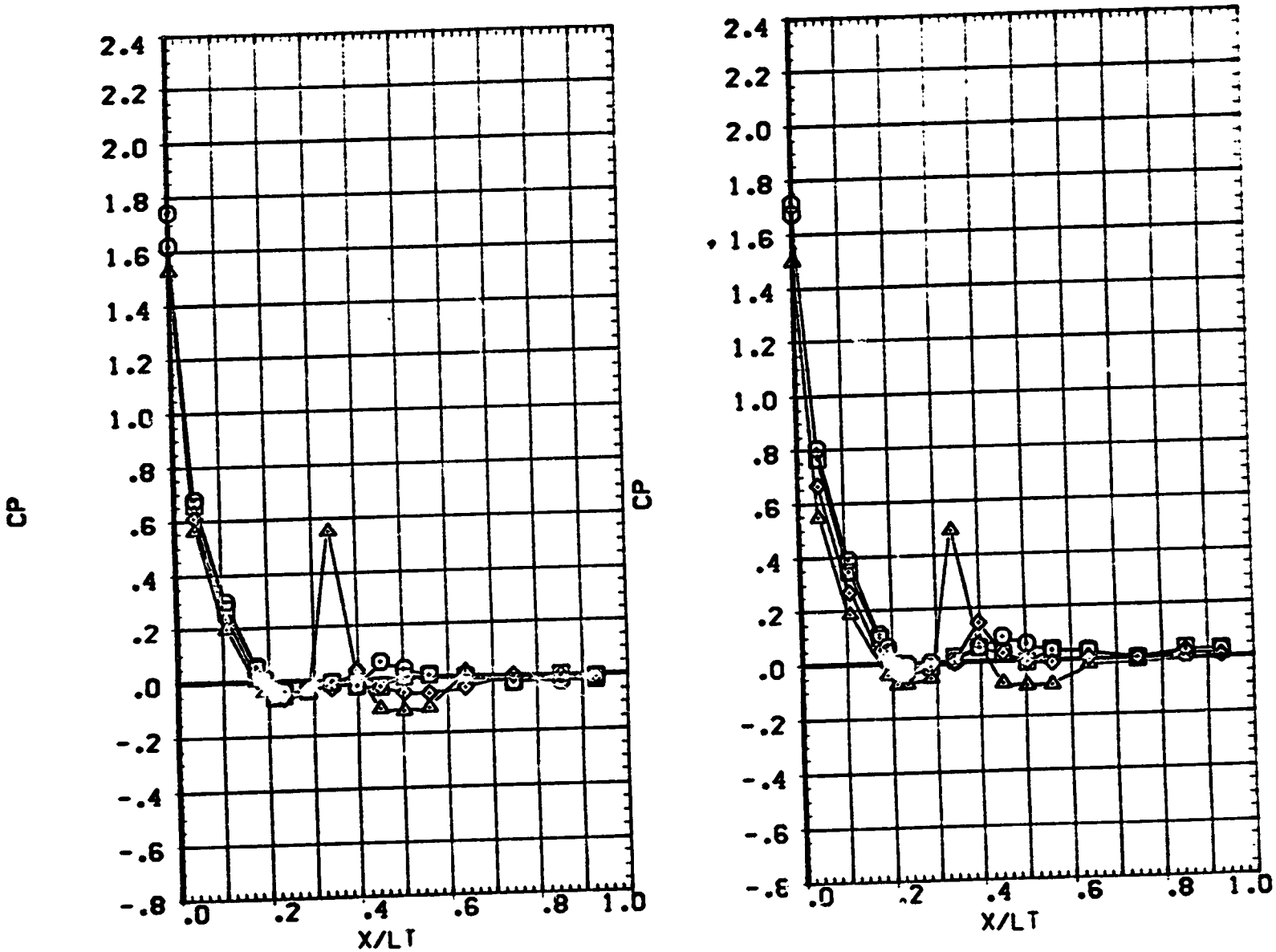


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL	PHI	ALPHAT	MACH
○	.000	3.960	2.999
□	30.000	8.000	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
AILER	.000		



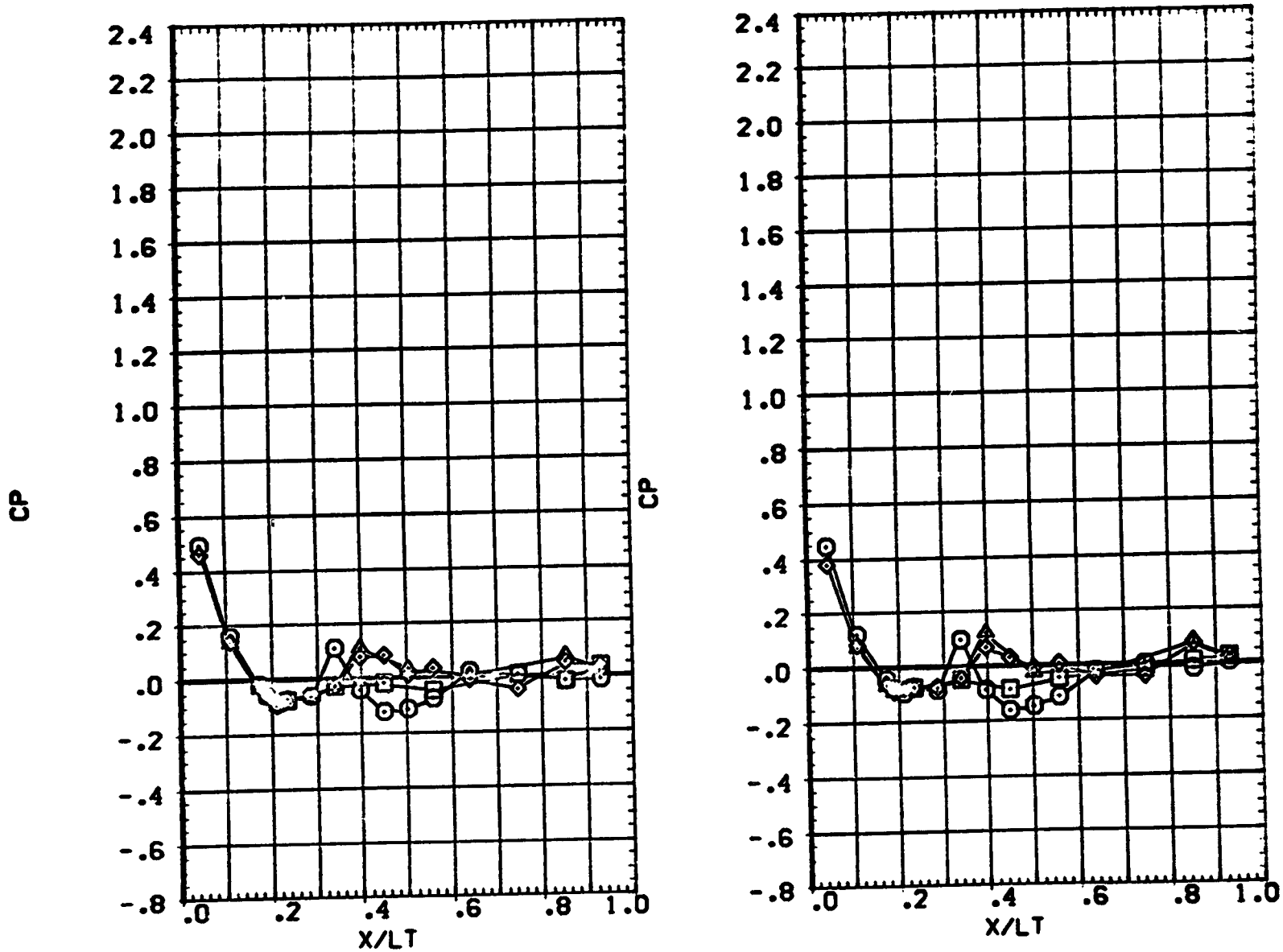
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNTO1)

SYMBOL	PHI	ALPHAT	MACH
○	120.000	3.960	2.999
□	135.000	8.000	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



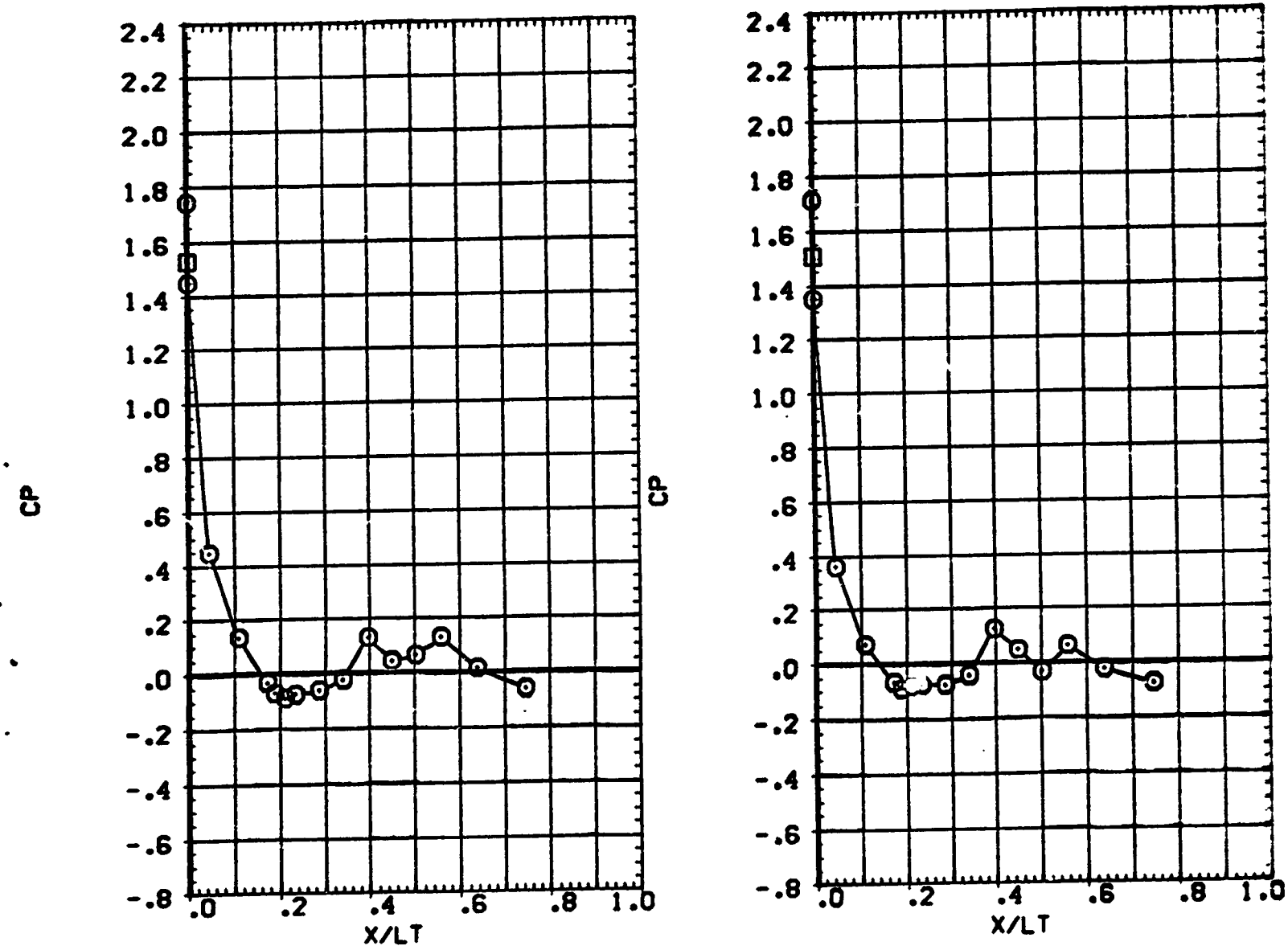
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNT01)

SYMBOL	PHI	ALPHAT	MACH
○	180.000	3.960	2.999
□	270.000	8.000	

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



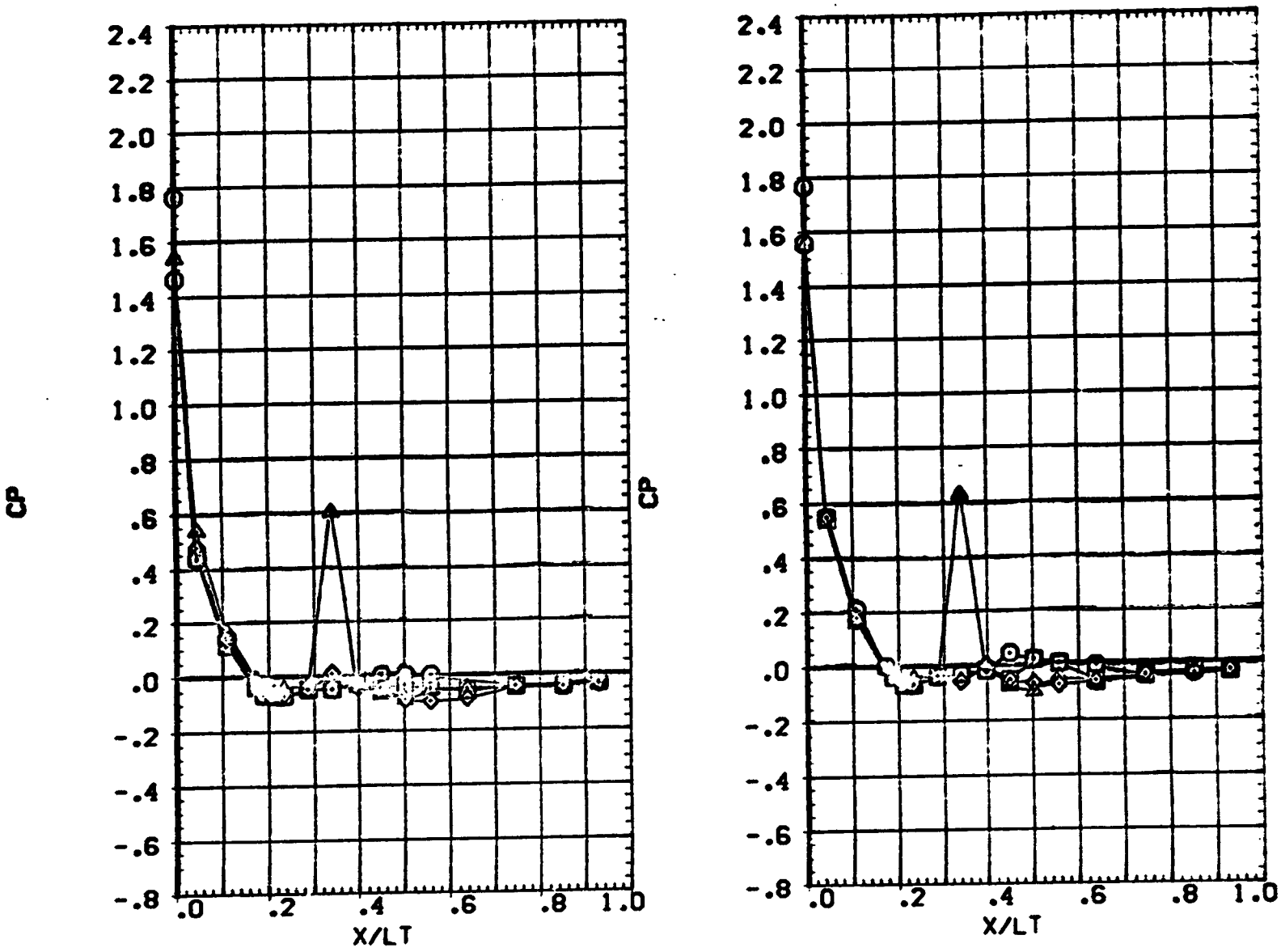
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AYES 87-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNTC)

SYMBOL	PHI	ALPHAT	MACH
○	.000	-4.070	3.502
□	30.000	-.030	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



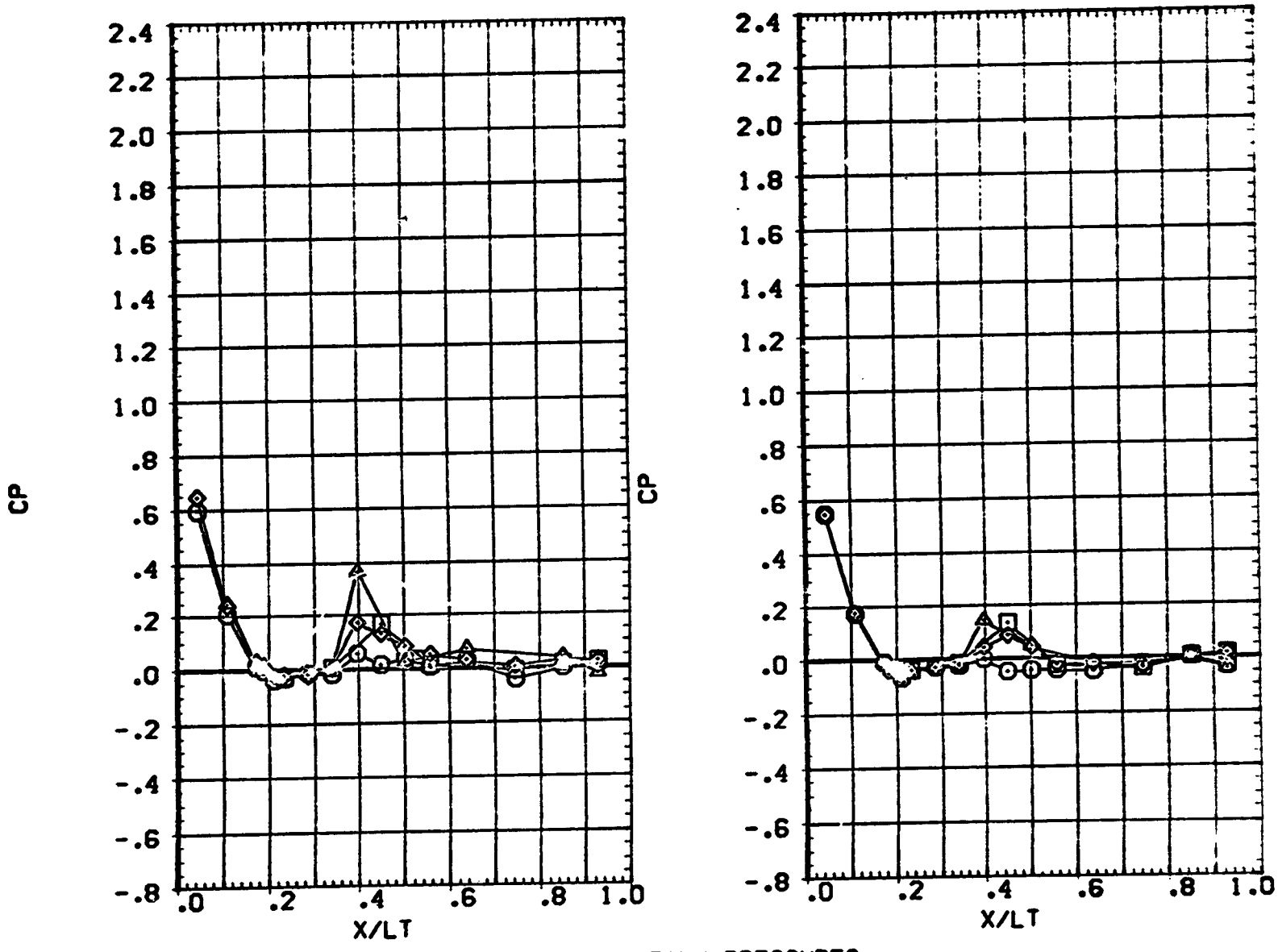
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 32A + S3 + T9 EXTERNAL TANK (RBNTC:)

SYMBOL	PHI	ALPHAT	MACH
○	:20.000	-4.070	3.502
□	:35.000	-.030	
◇	:50.000		
△	:65.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



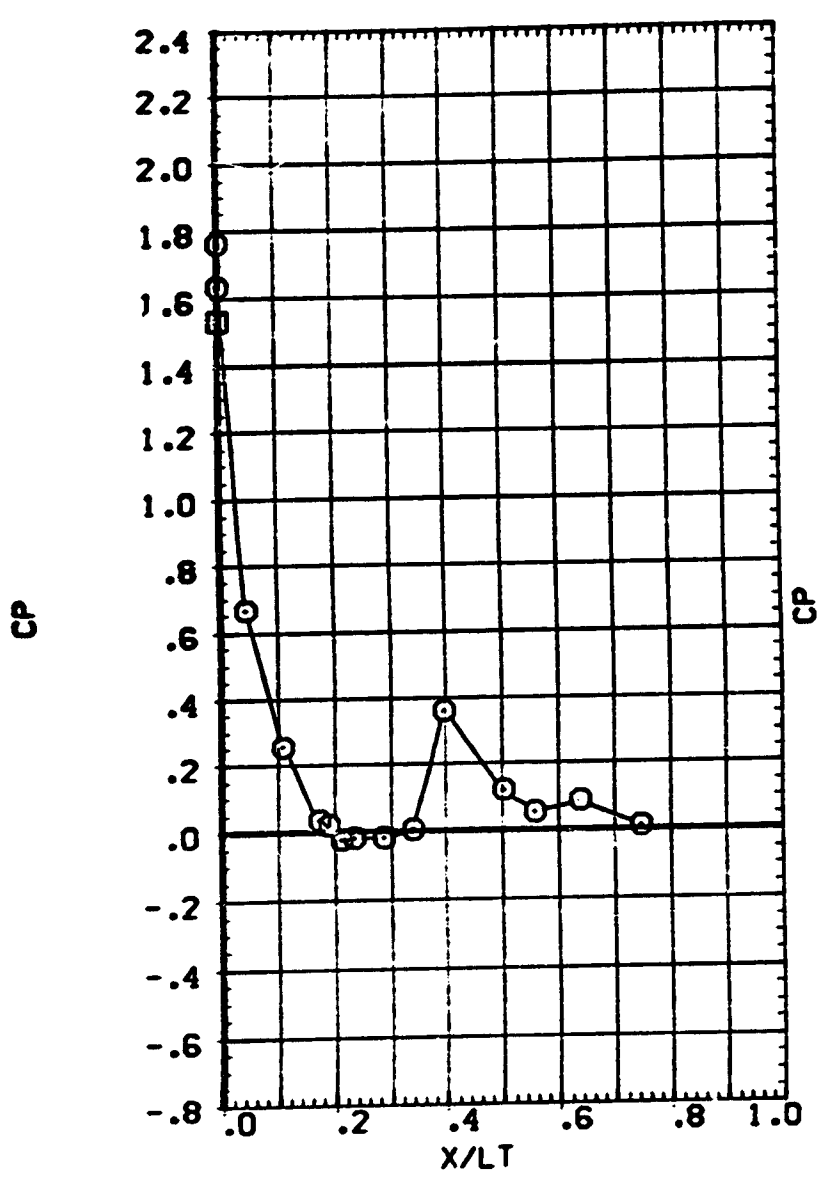
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

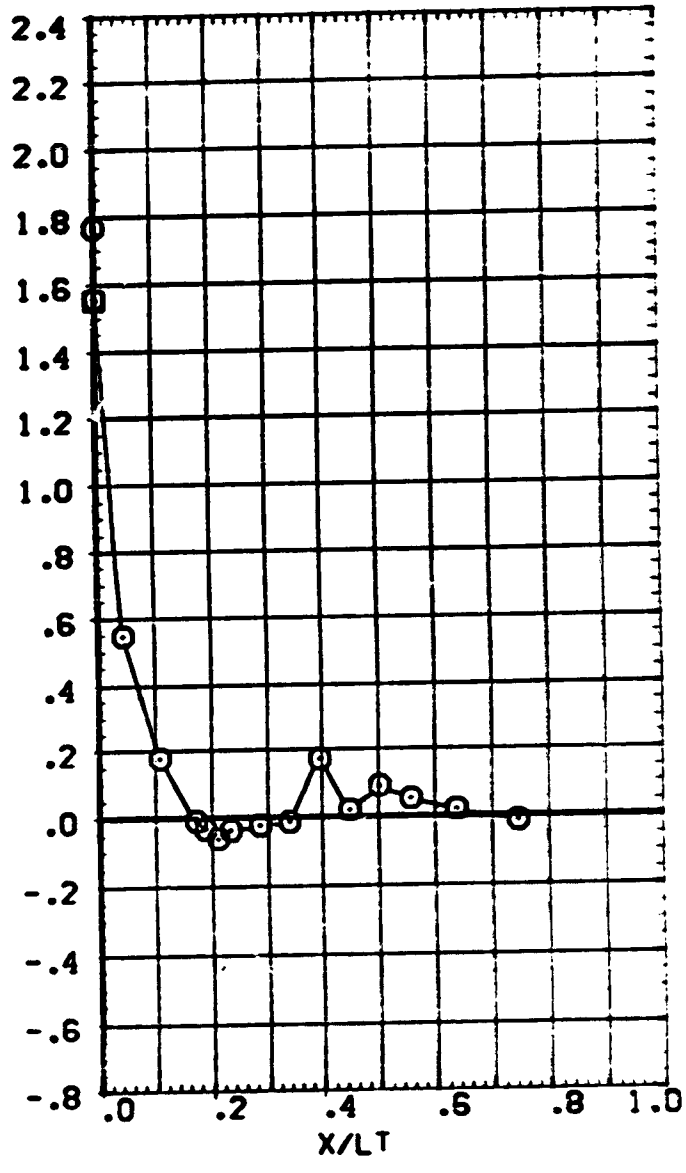
AVES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBNTC1)

SYMBOL	PHI	ALPHAT	MACH
O	180.000	-4.070	3.502
□	270.000	-.030	

PARAMETRIC VALUES

BETAT	.000	DBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		





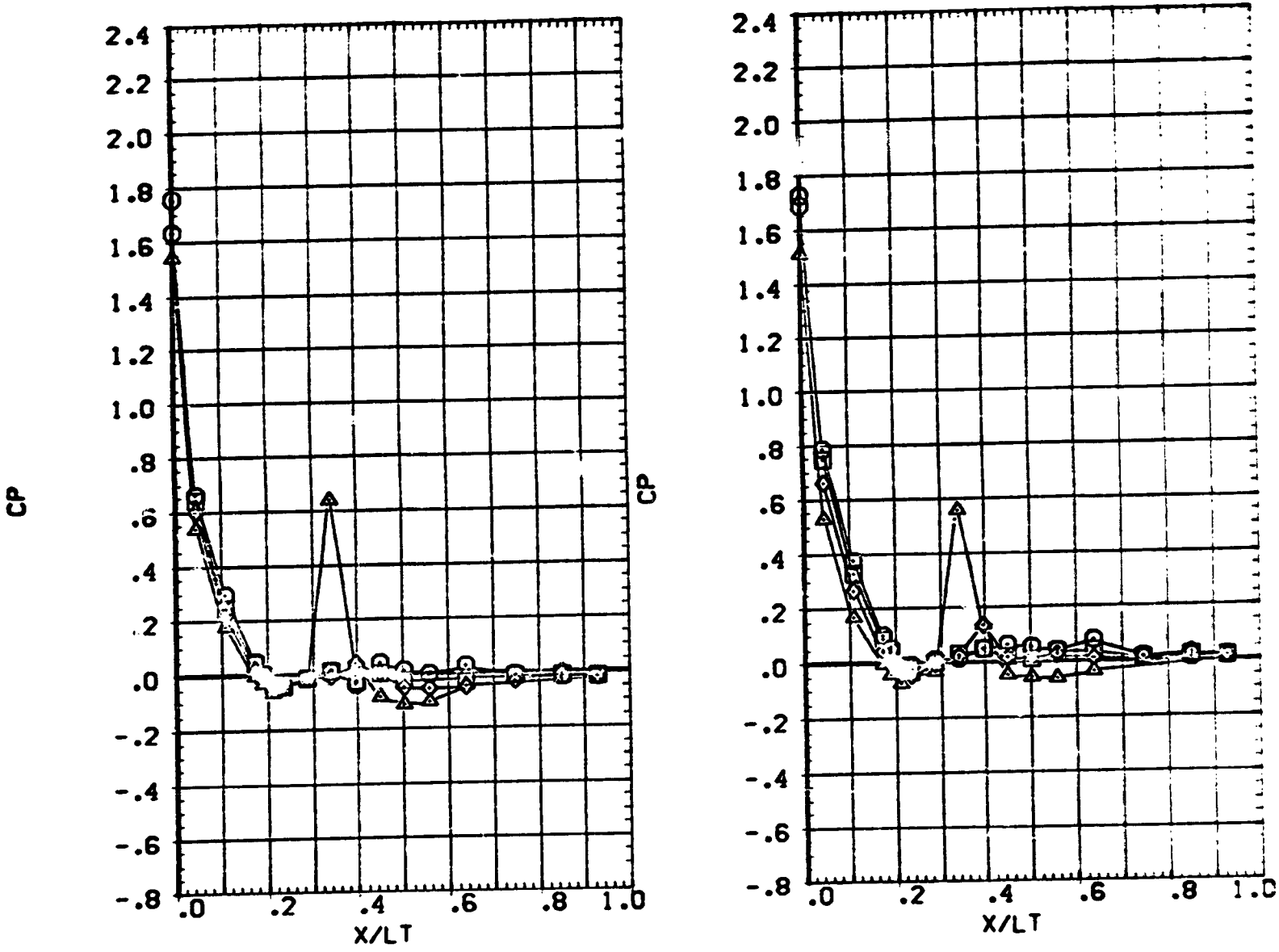
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNTC1)

SYMBOL	PHI	ALPHAT	MACH
○	.0000	3.960	3.502
◇	30.0000	8.010	
△	60.0000		
	90.0000		

PARAMETRIC VALUES

BETAT	.0000	SPOILC	.5000
RUDDER	.0000	ELEVN	.0000
RUDFLR	.0000		



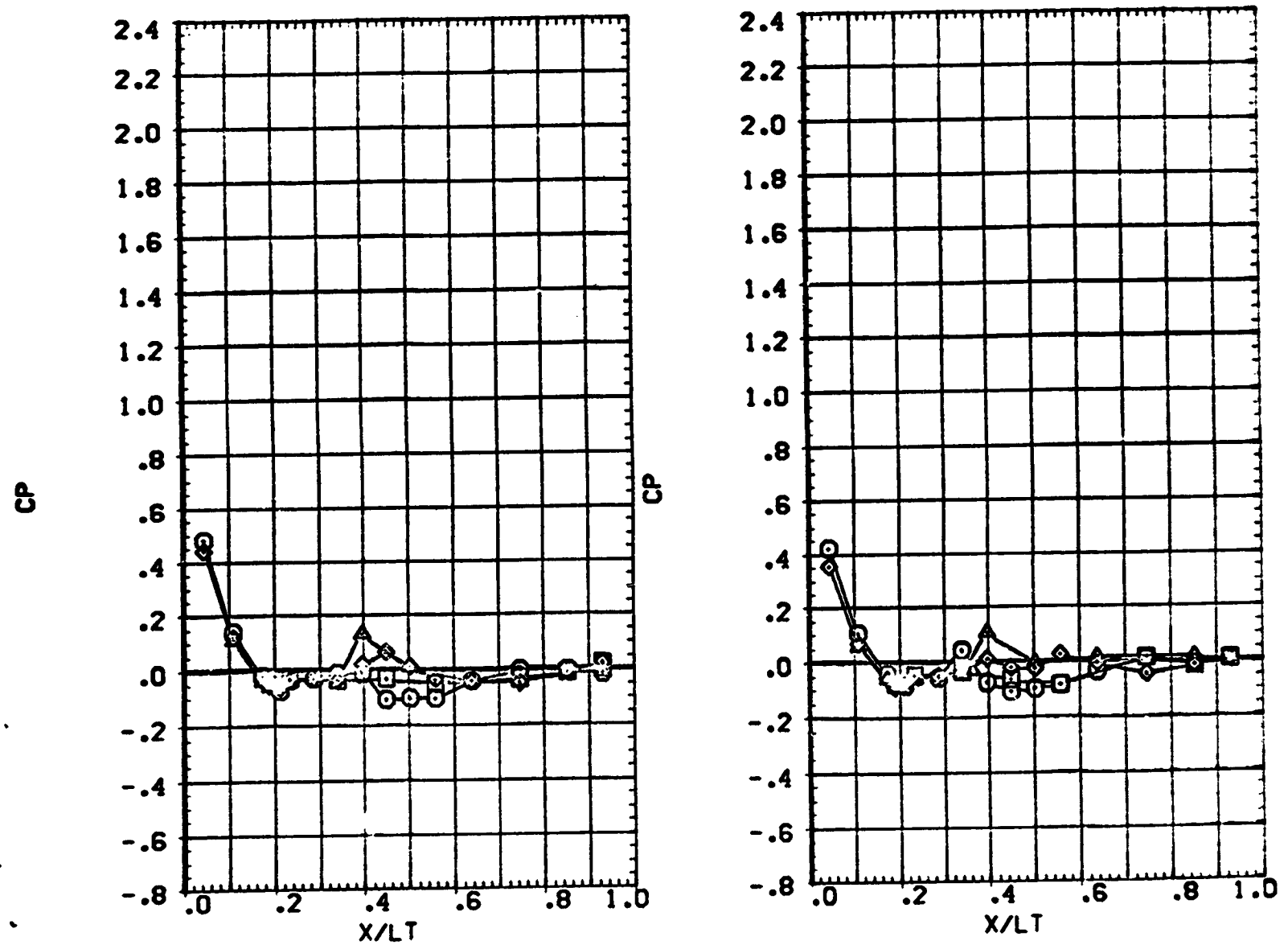
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 :A8 C2A + S3 + T8 EXTERNAL TANK (RBNTC:)

SYMBOL	PHI	ALPHAT	MACH
○	120.000	3.960	3.502
□	135.000	8.010	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.000
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

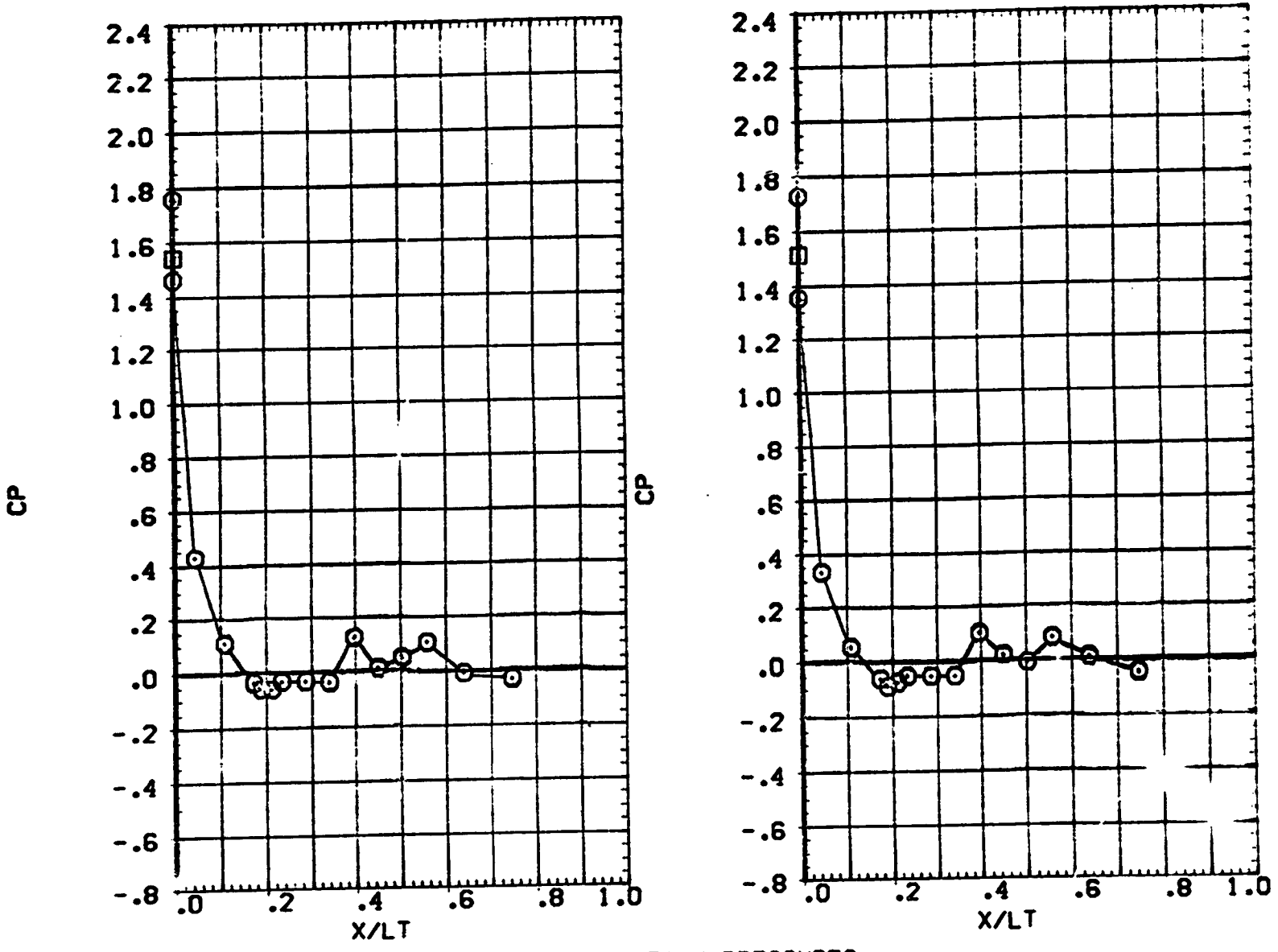


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL	PHI	ALPHAT	MACH
○	180.000	3.960	3.502
□	270.000	8.010	

PARAMETRIC VALUES

BETA	.000	SPEED	.500
RUDDER	.000	ELEVON	.000
ROLL	.000		



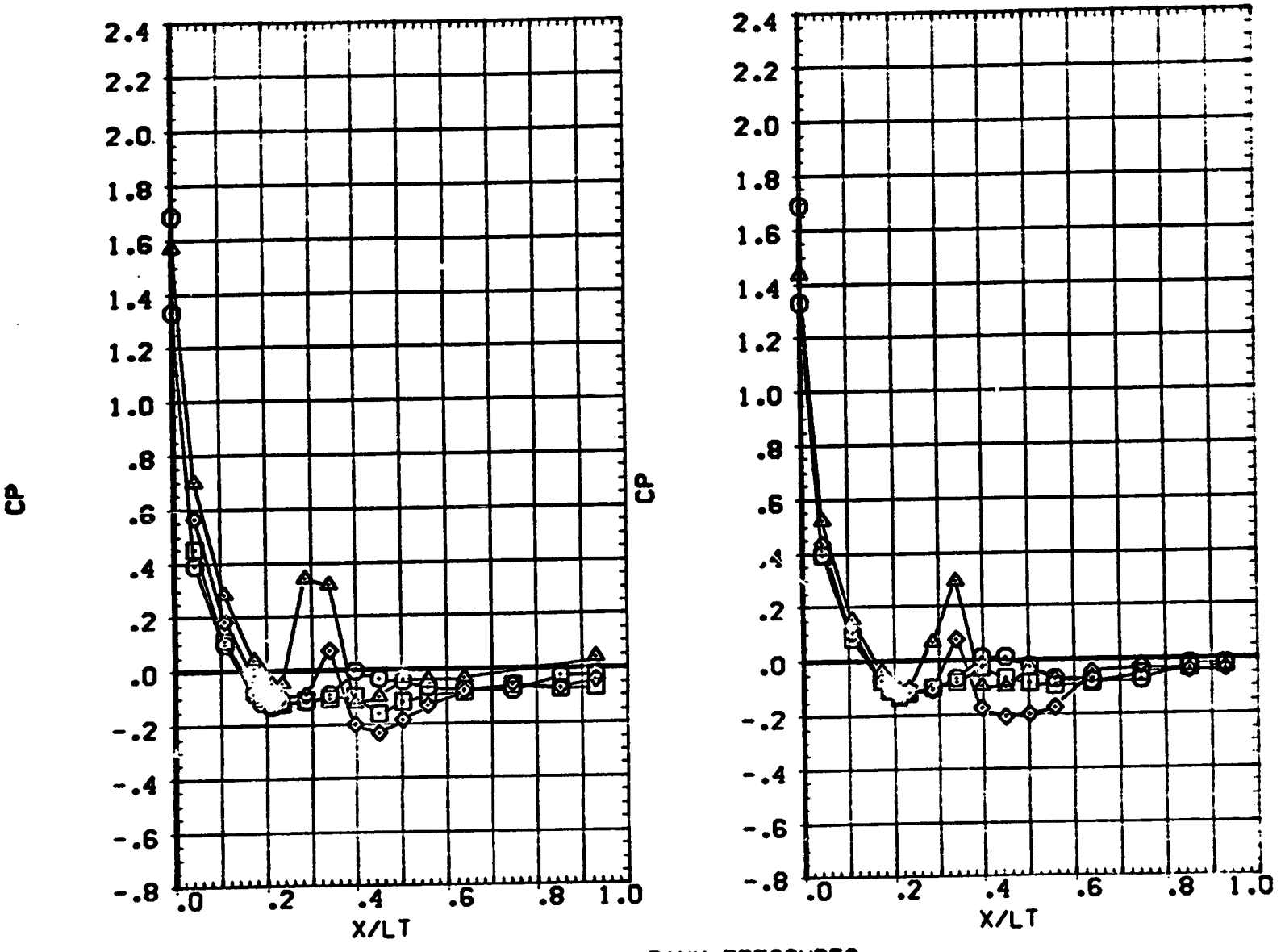
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 :A9 32A + S3 + T9 EXTERNAL TANK (RBVT02)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.170	2.498
□	30.000	2.180	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROLLR	.000		

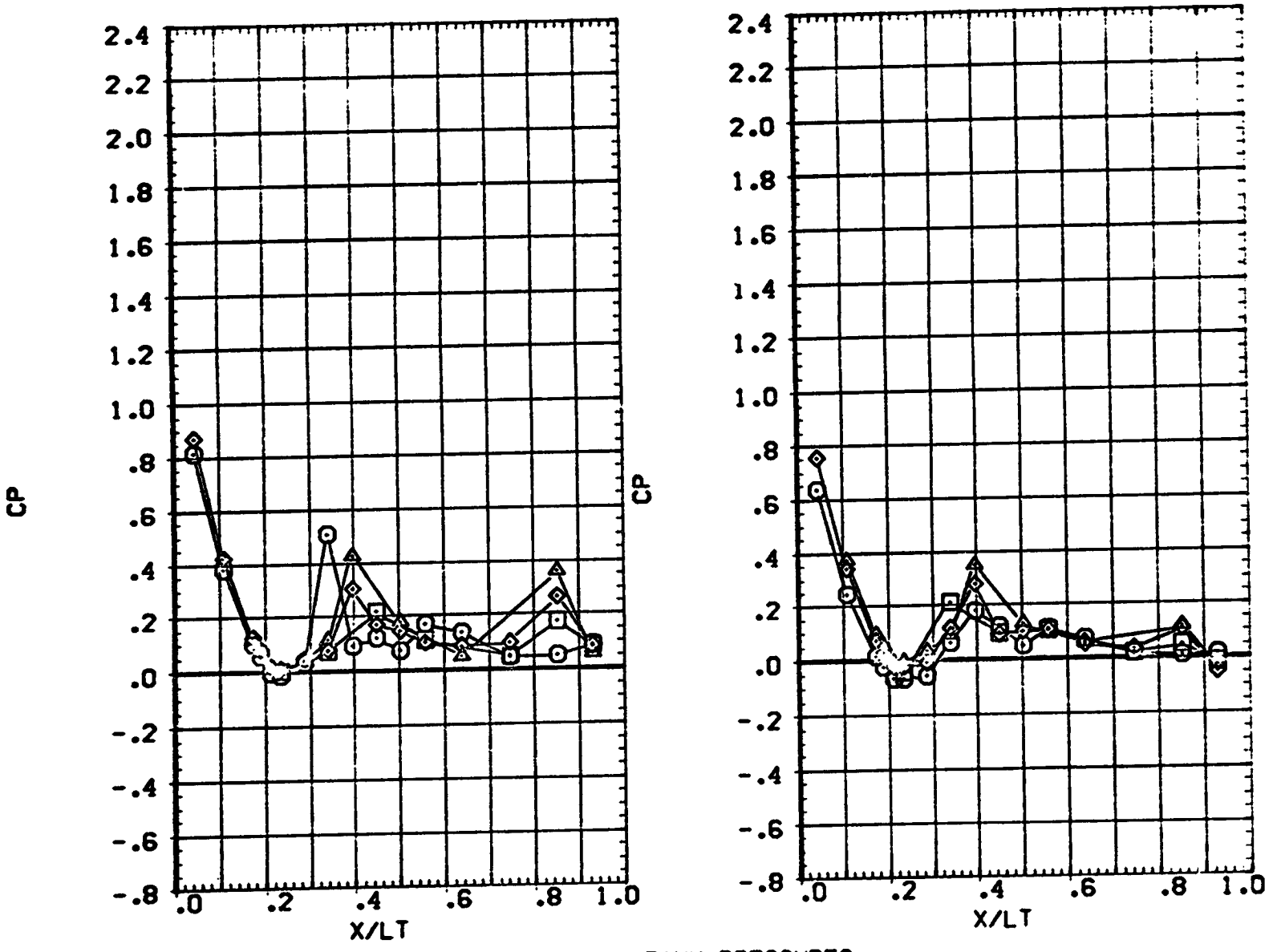


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL	PHI	BETAT	MACH
○	20.000	-4.170	2.498
□	35.000	2.180	
◇	50.000		
△	65.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



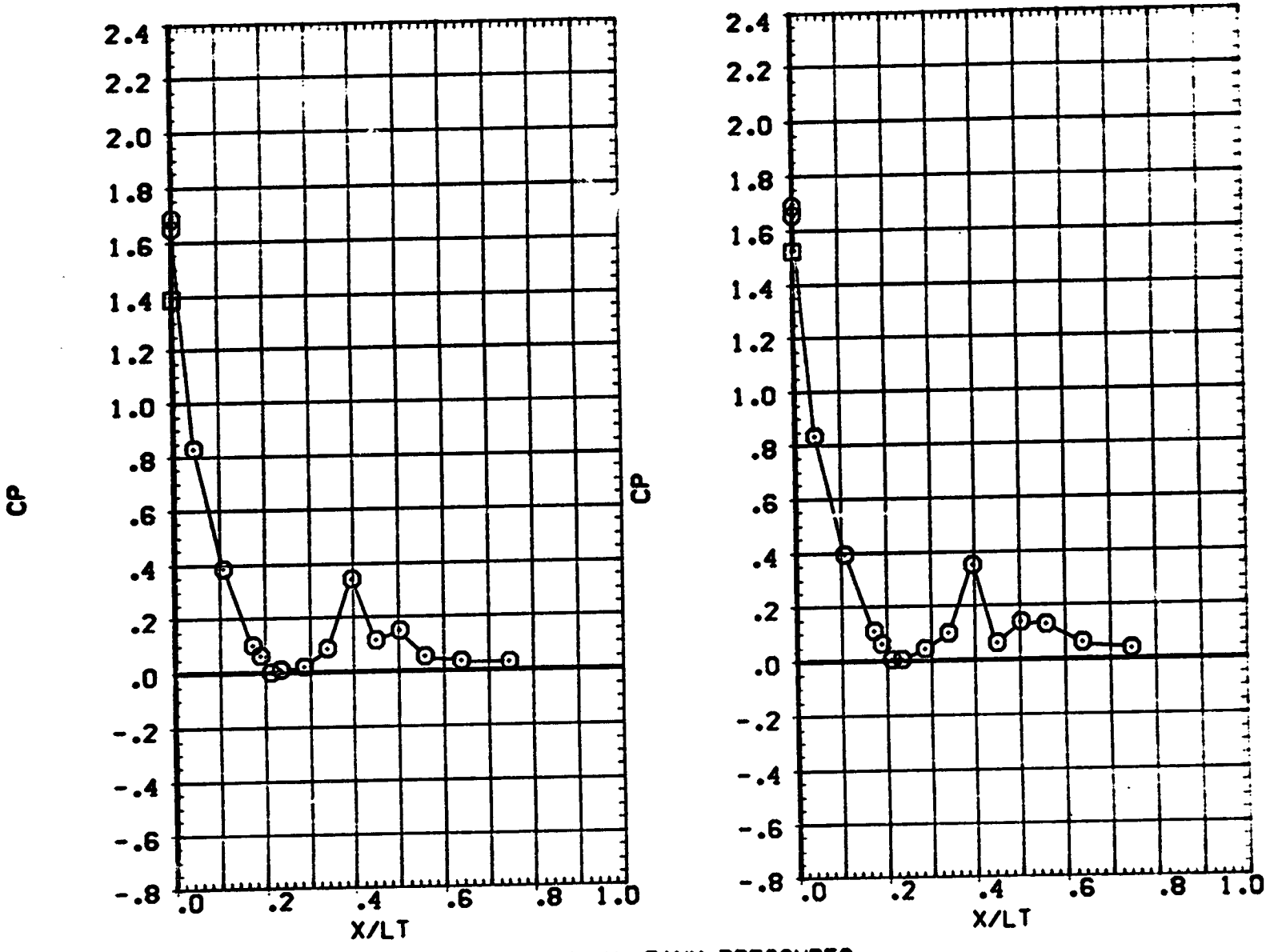
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBNT02)

SYMBOL	PHI	BETA	MACH
○	180.000	-4.:7C	2.498
□	270.000	2.:8C	

PARAMETRIC VALUES

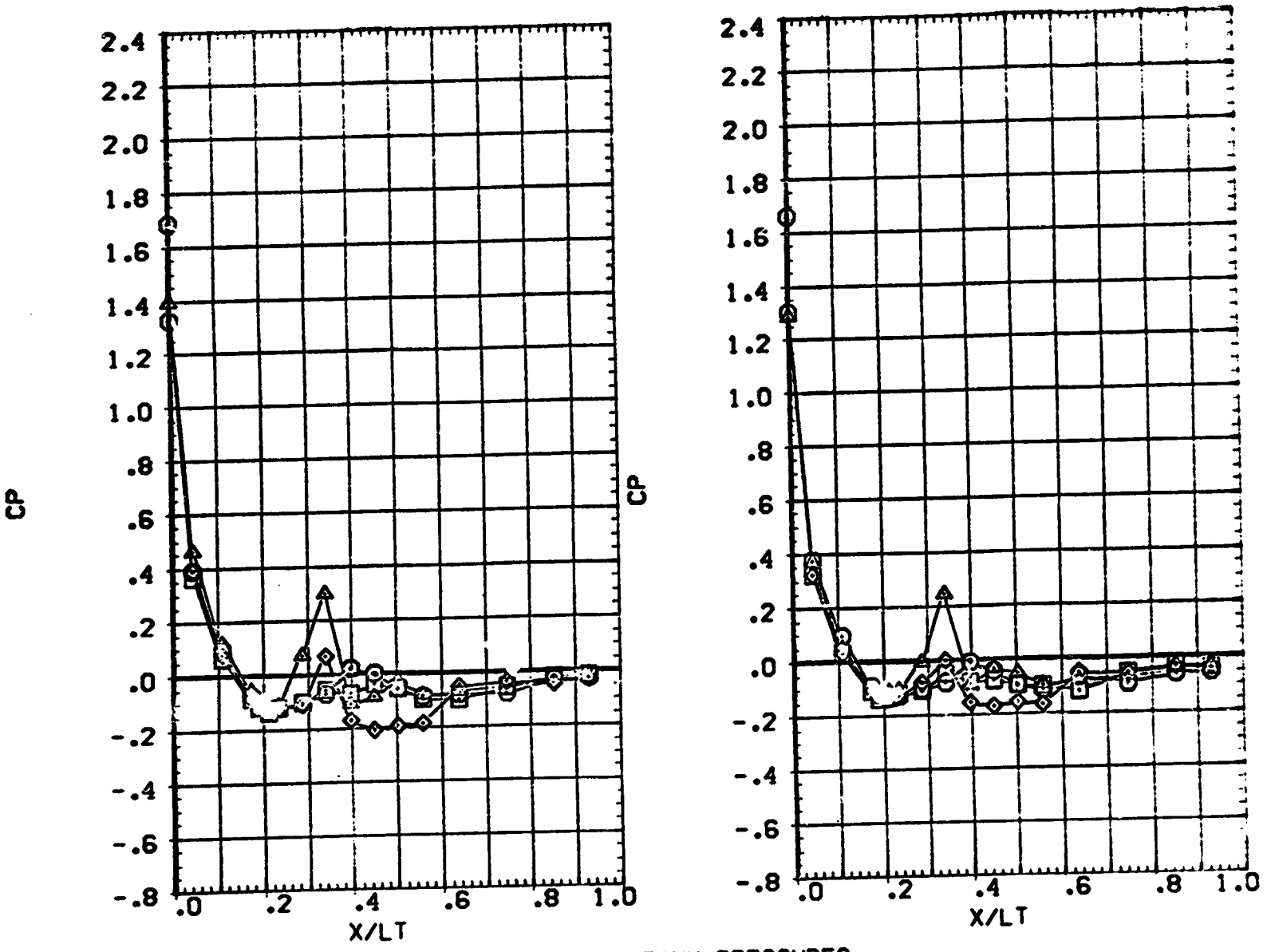
ALPHAT	-8.CCC	ORB:NC	.5CC
RUDDER	.CCC	ELEVON	.CCC
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL	PHI	BETA	MACH
○	.000	4.320	2.480
◇	30.000	8.590	
□	60.000		
△	90.000		

ALPHA	-8.000	SPOILER	.000
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



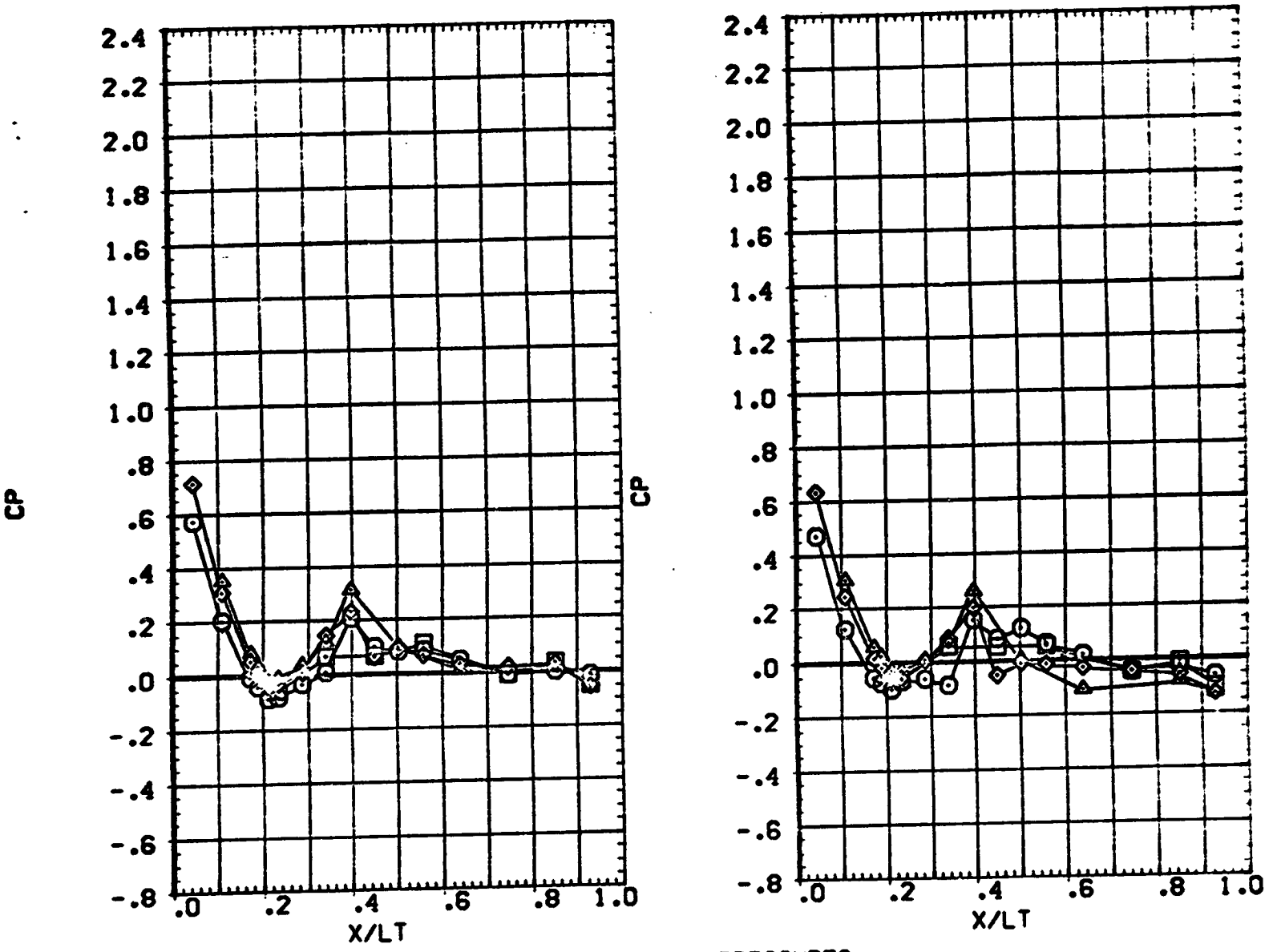
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 IAB C2A + S3 + T8 EXTERNAL TANK (RBNT02)

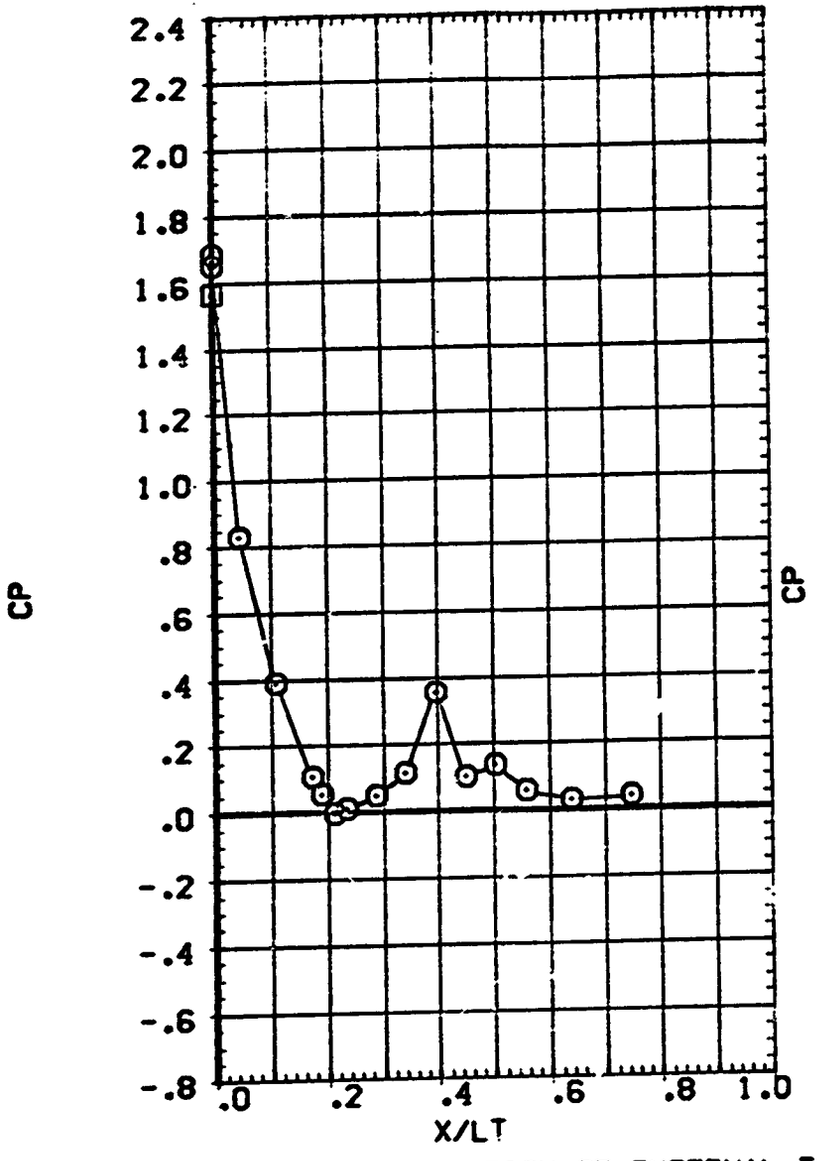
SYMBOL	PHI	BETA	MACH
○	20.000	4.320	2.498
□	35.000	8.580	
◇	50.000		
△	65.000		

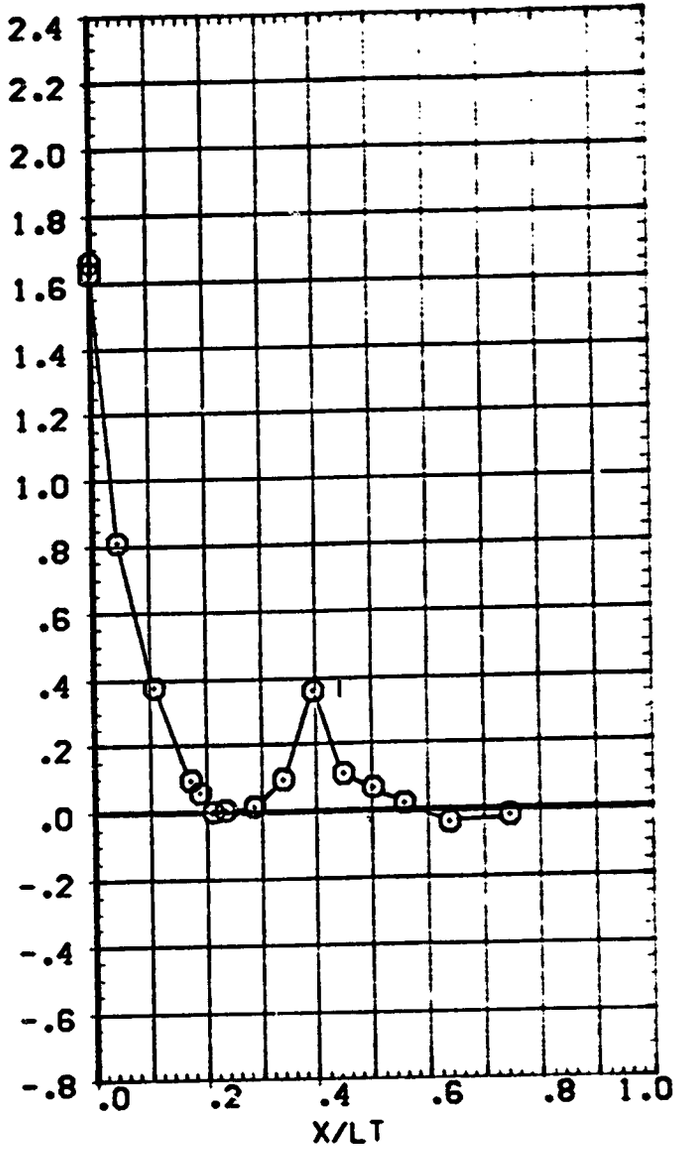
PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES





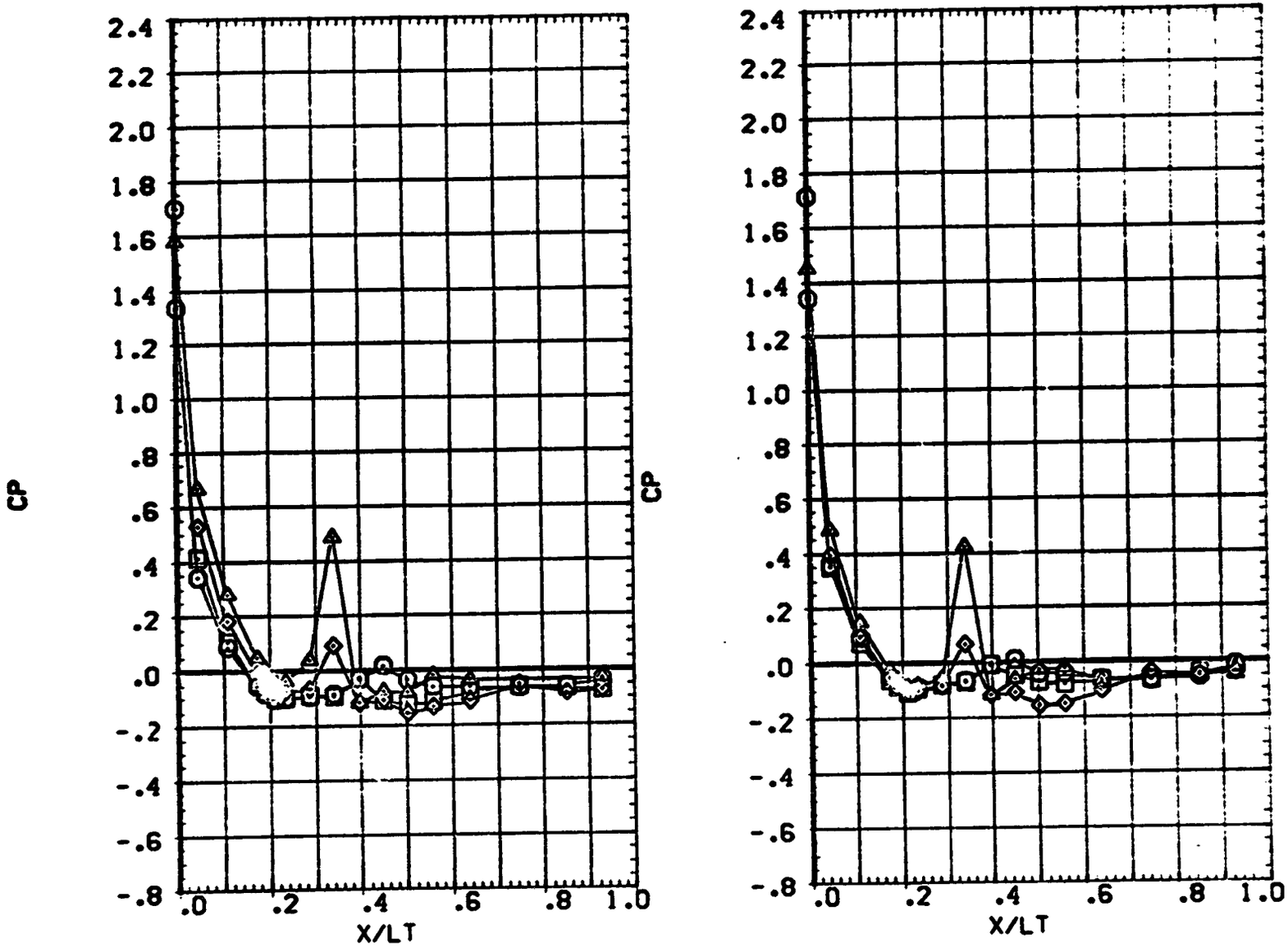
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNT02)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.250	2.999
◇	30.0000	2.230	
△	60.0000		
	90.0000		

PARAMETRIC VALUES

ALPHAT	-8.0000	SREFC	.500
RUDDER	.0000	ELEVON	.000
RUDFLR	.000		



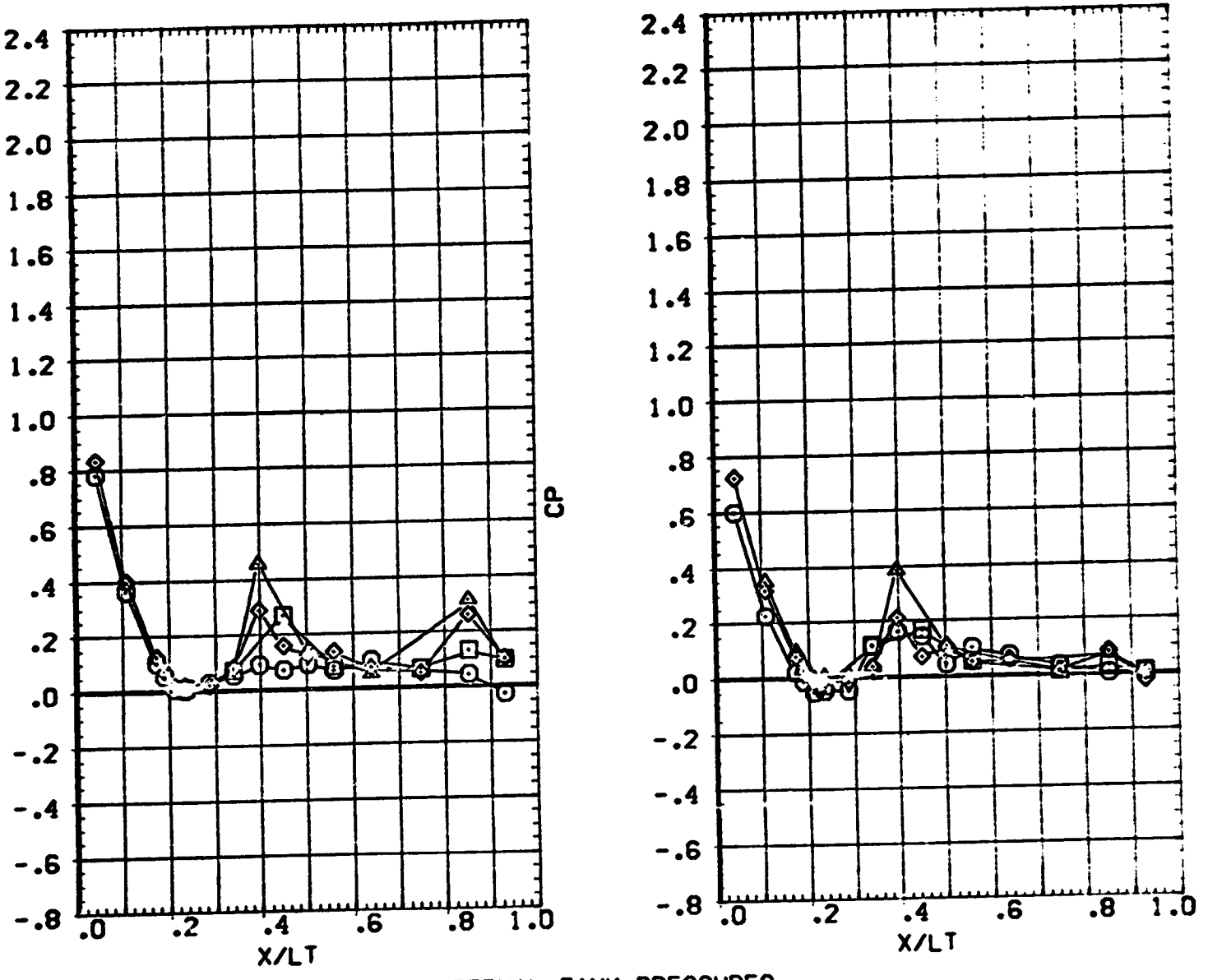
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBNT02)

SYMBOL	PHI	BETAT	MACH
○	120.000	-4.250	2.999
□	135.000	2.230	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



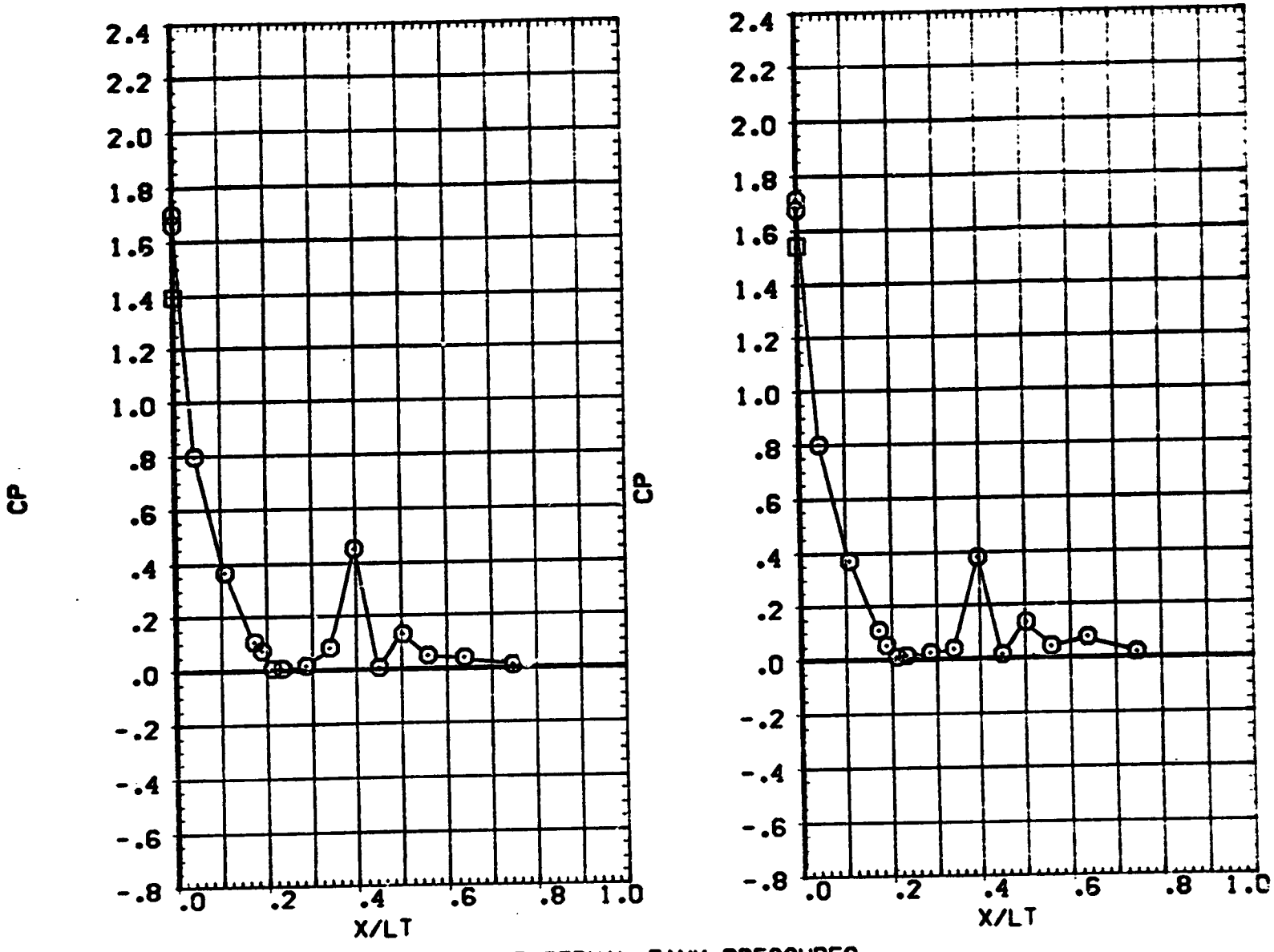
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AYES 87-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNT02)

SYMBOL	PHI	BETAT	MACH
○	180.000	-4.250	2.999
□	270.000	2.230	

PARAMETRIC VALUES

ALPHA	-8.000	DRIVE	.500
RUDDER	.000	ELEVN	.000
RUDFLR	.000		



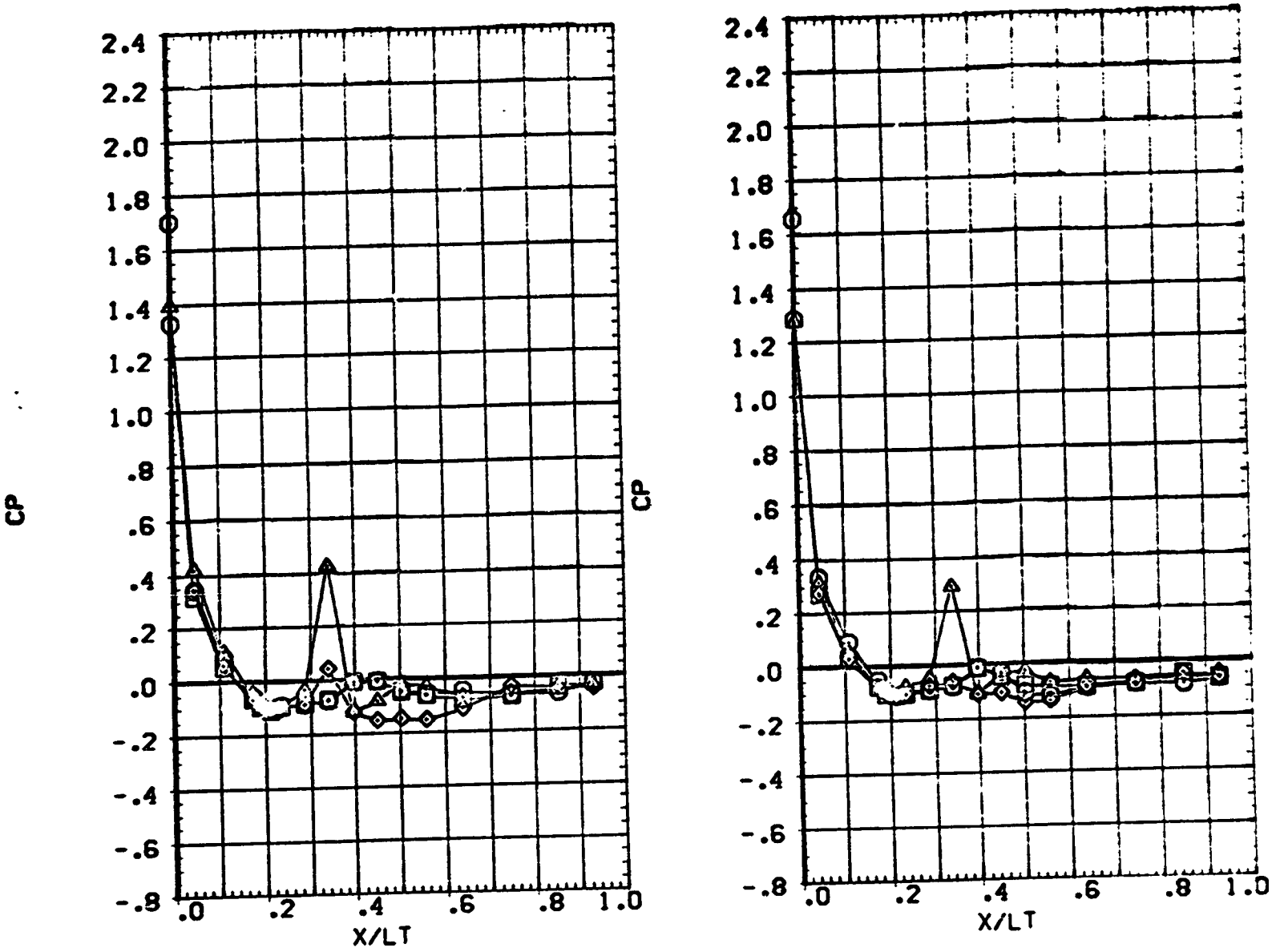
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 :A8 C2A + S3 + T8 EXTERNAL TANK (RBNTC2)

SYMBOL	PHI	BETA	MACH
○	.000	4.400	2.999
□	30.000	8.750	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBITC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



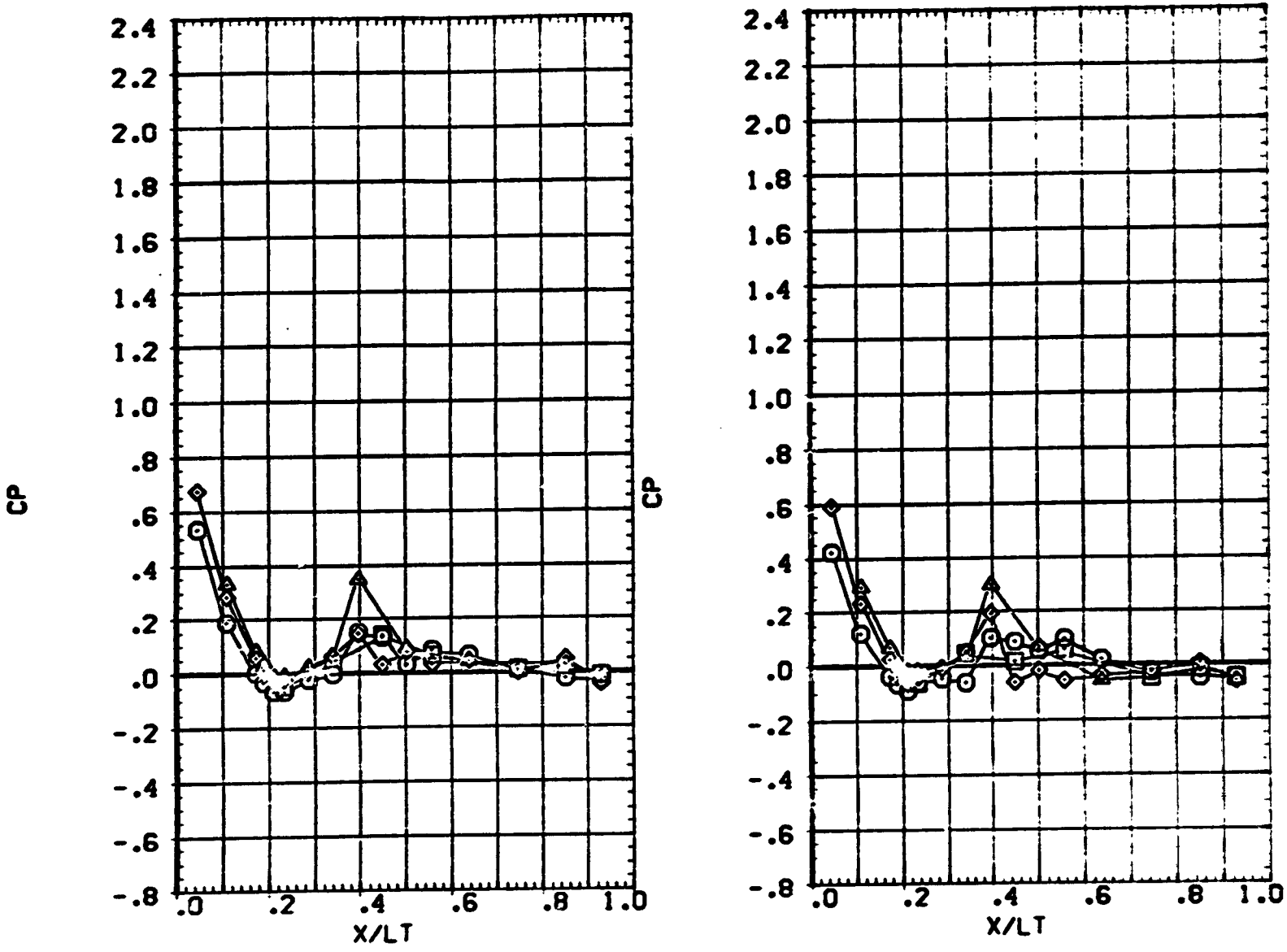
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBNT02)

SYMBOL	PHI	BETAT	MACH
○	20.000	4.400	2.999
□	35.000	8.750	
◇	50.000		
△	65.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



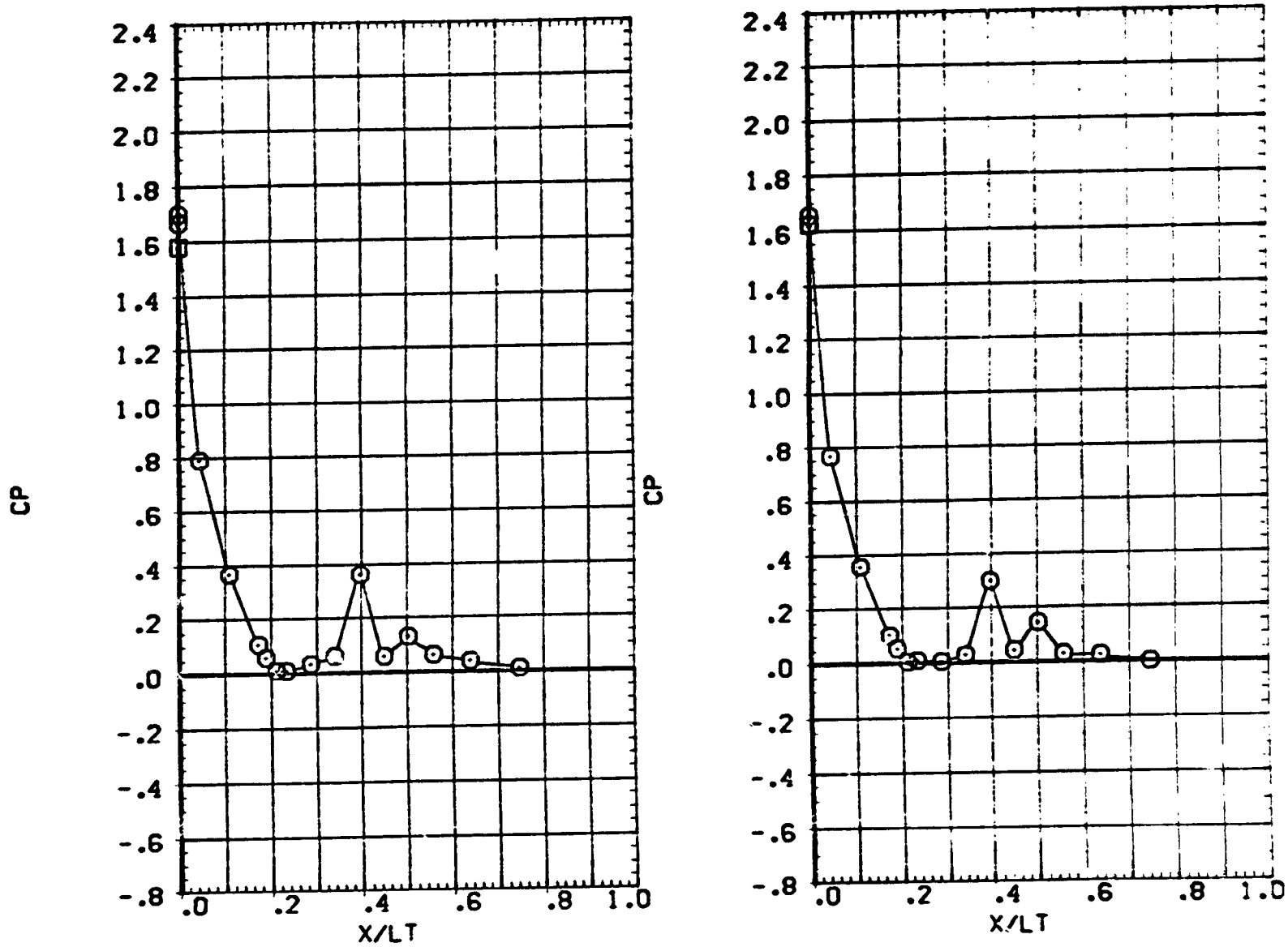
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 02A - S3 - T9 EXTERNAL TANK (RBNT02)

SYMBOL	PHI	BETAT	MACH
○	180.000	4.400	2.999
	270.000	8.750	

PARAMETRIC VALUES

ALPHAT	-8.000	ORBIN	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

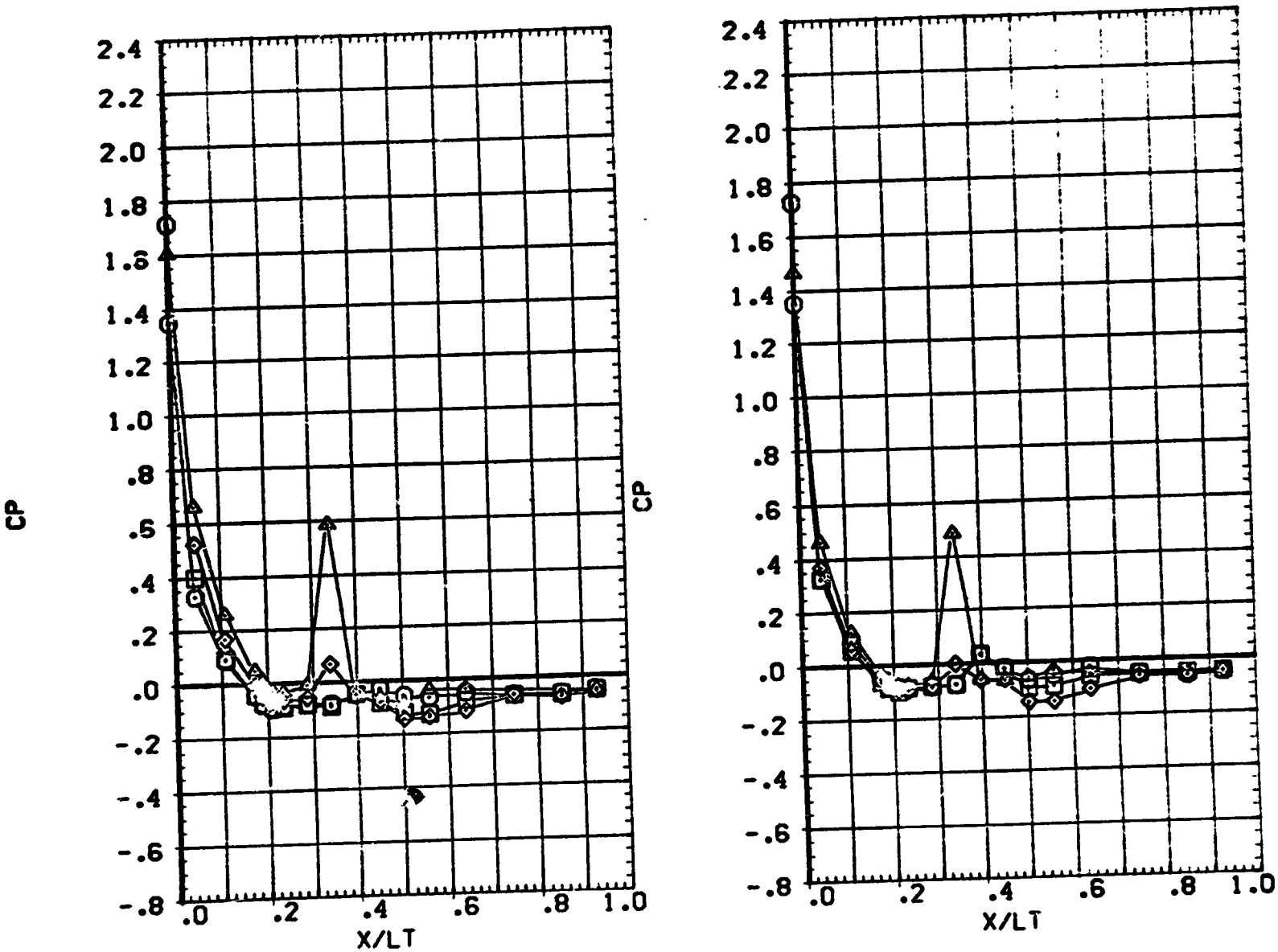


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

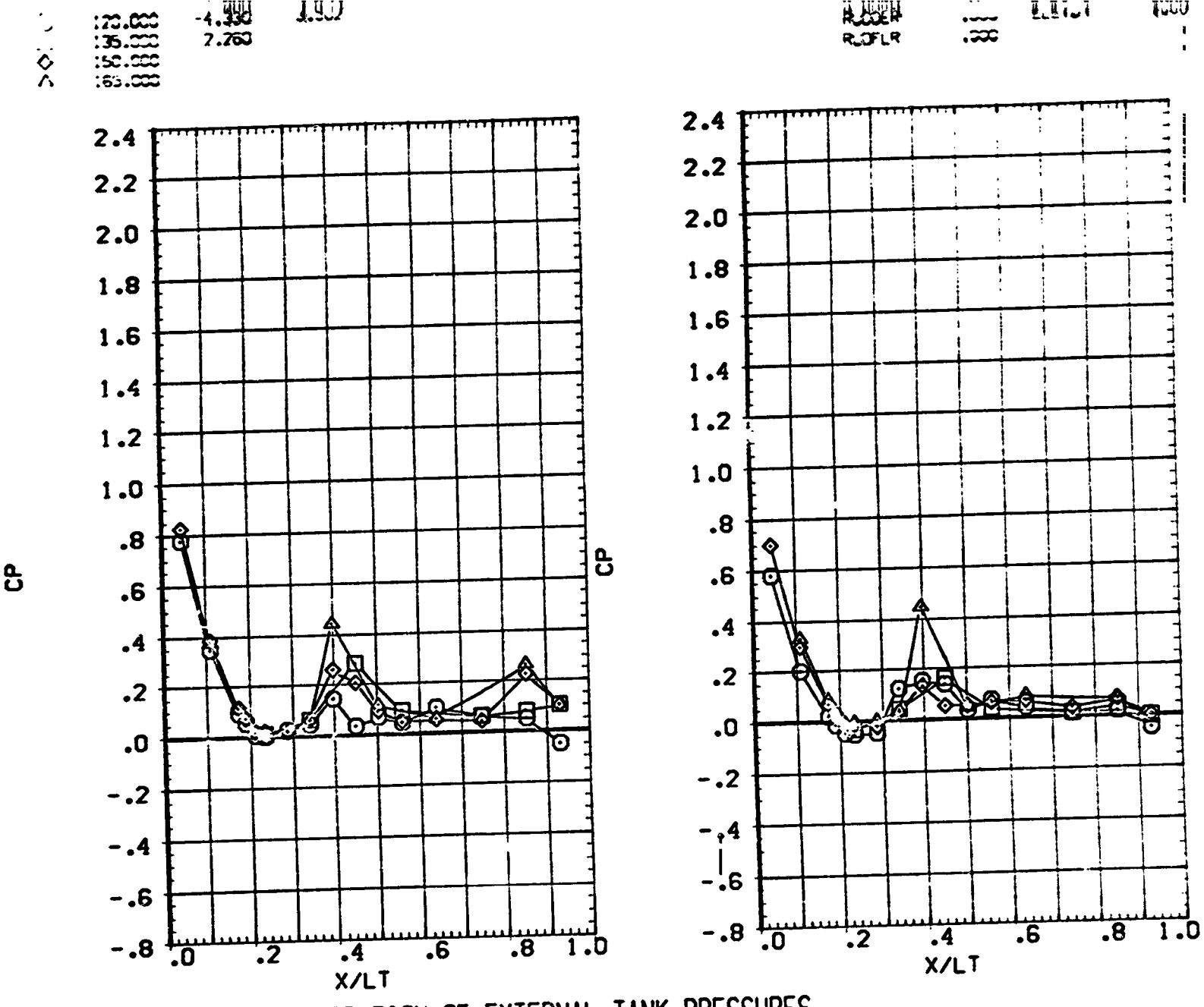
SYMBOL	PHI	BETAT	MACH
○	.000	-4.330	3.502
□	30.000	2.260	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



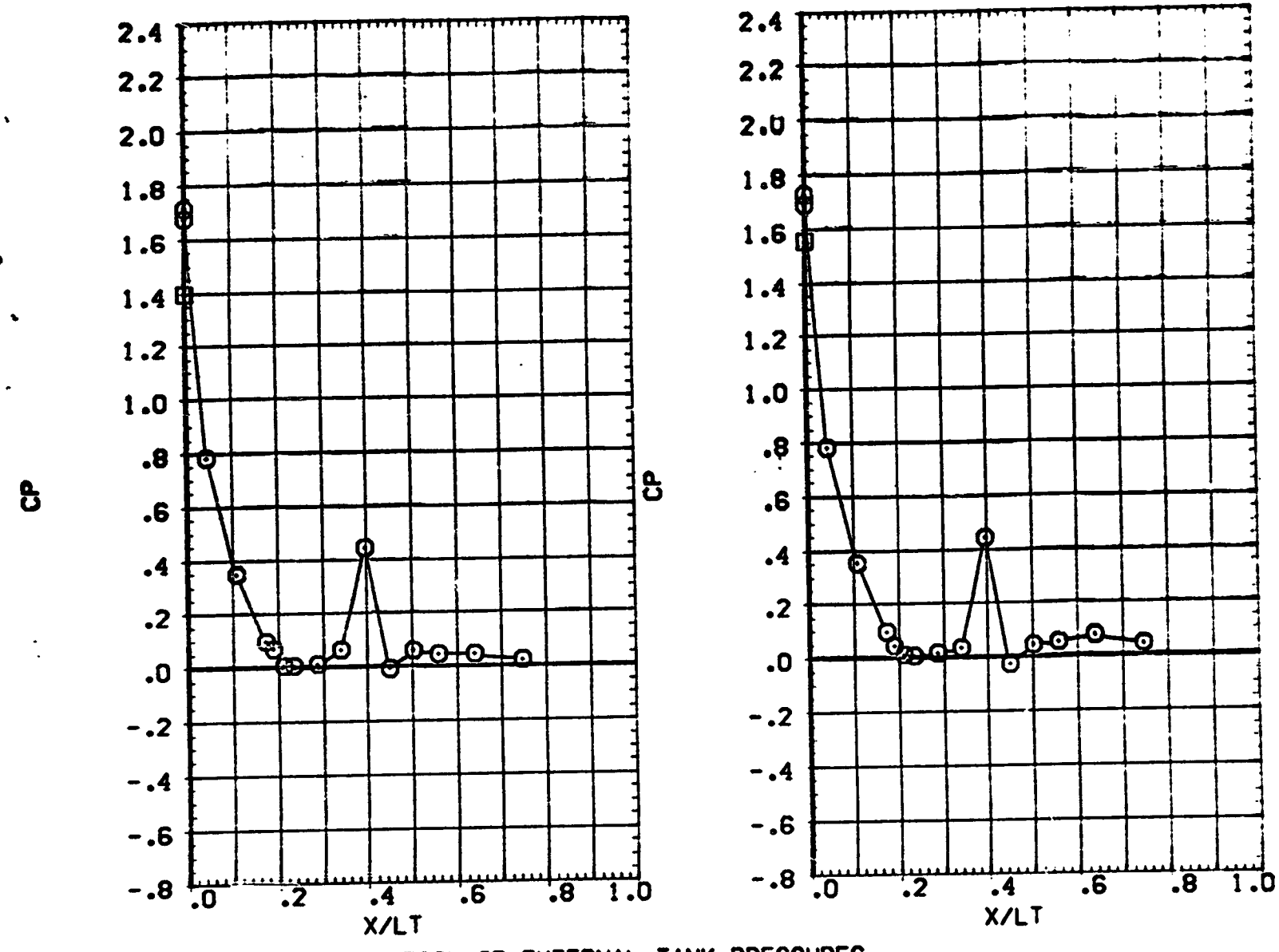
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBNT02)

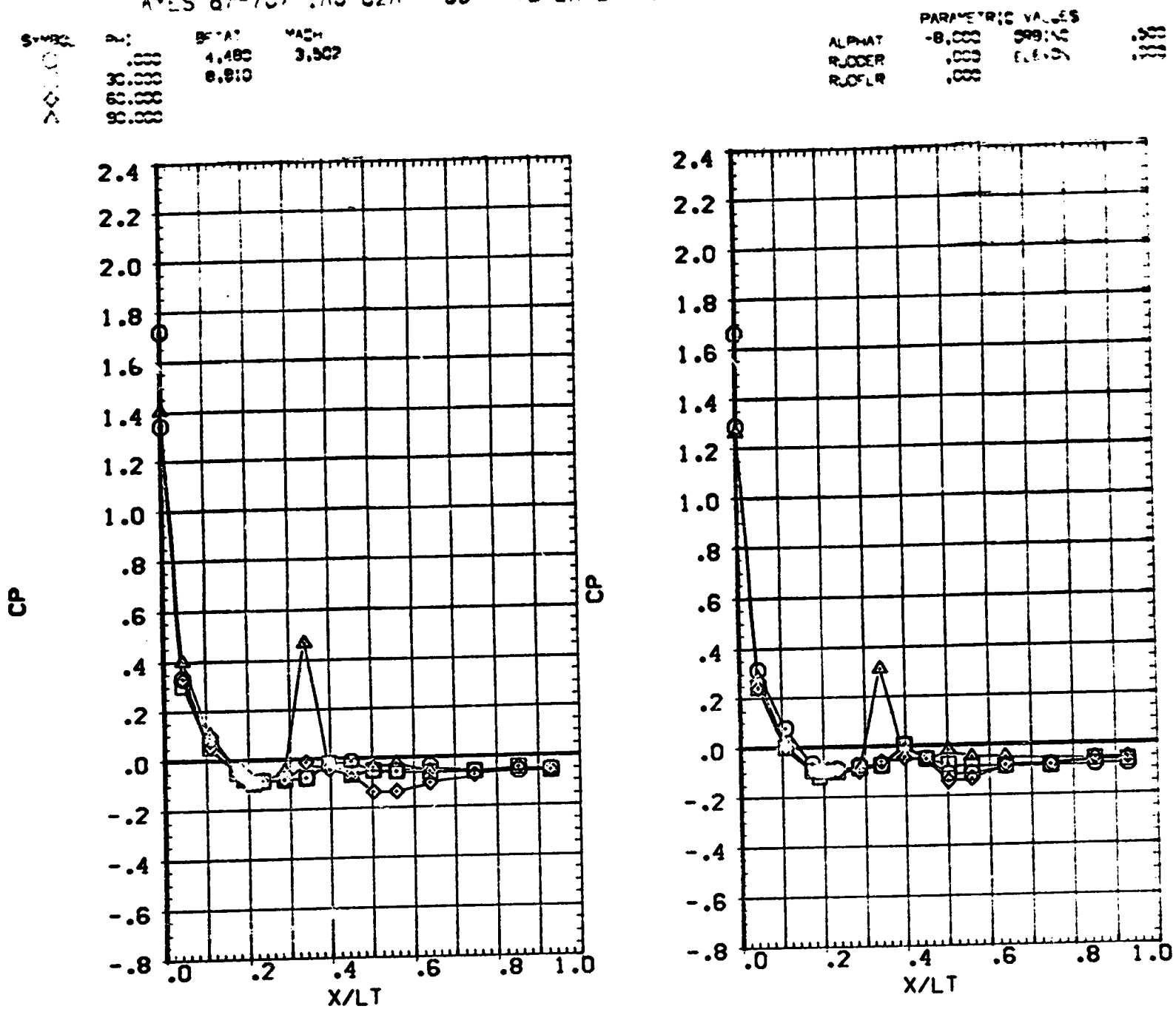
SYMBOL	PHI	BETAT	MACH
○	180.000	-4.330	3.502
...	270.000	2.260	

PARAMETRIC VALUES

ALPHAT	-8.000	SREFC	.500
RUDDER	.000	ELEVN	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



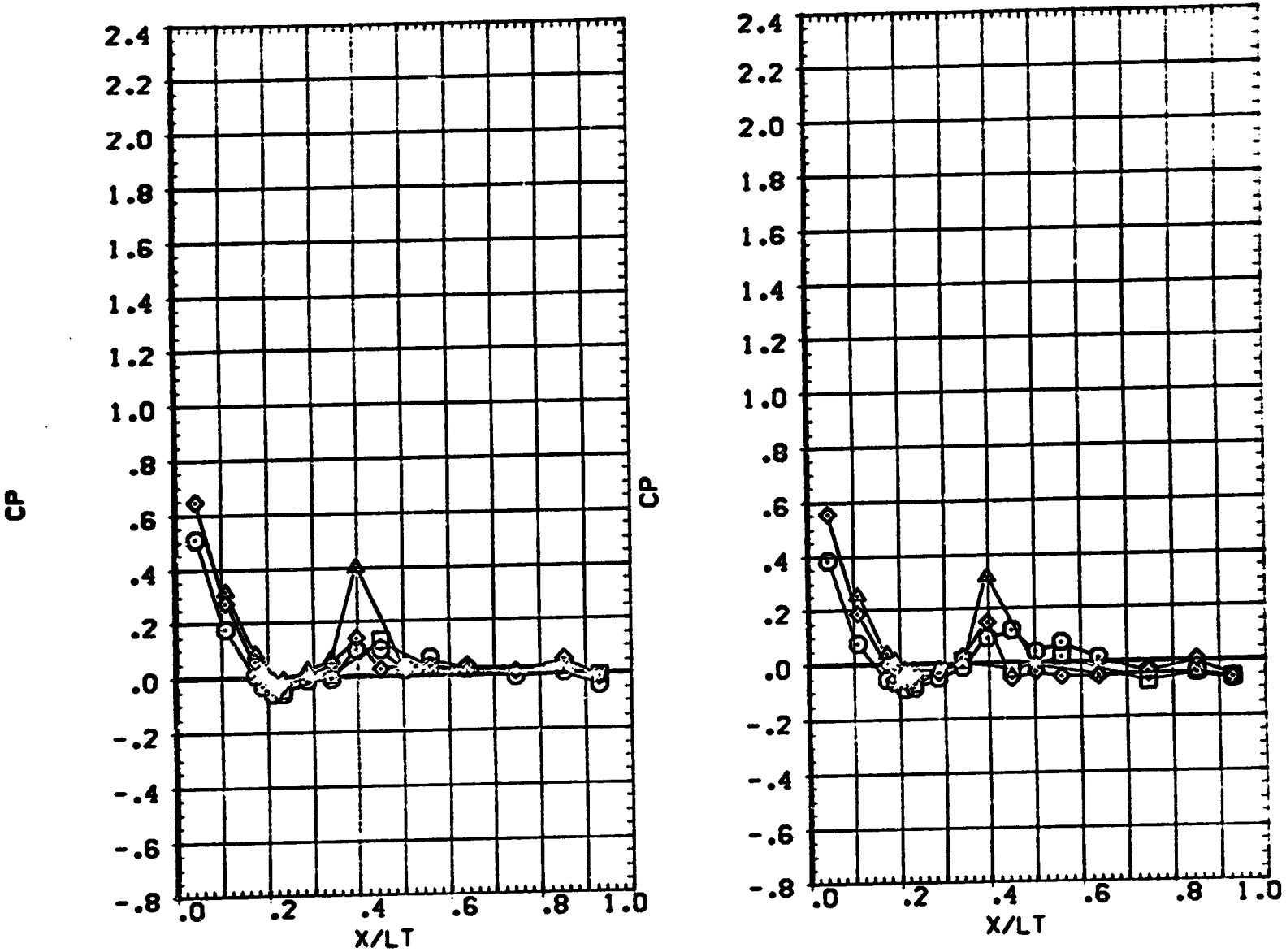
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AYES 87-707 :A9 C2A - S3 + T9 EXTERNAL TANK (RBNT02)

SYMBOL	PHI	BETAT	MACH
○	:20.000	4.480	3.502
□	:35.000	8.910	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

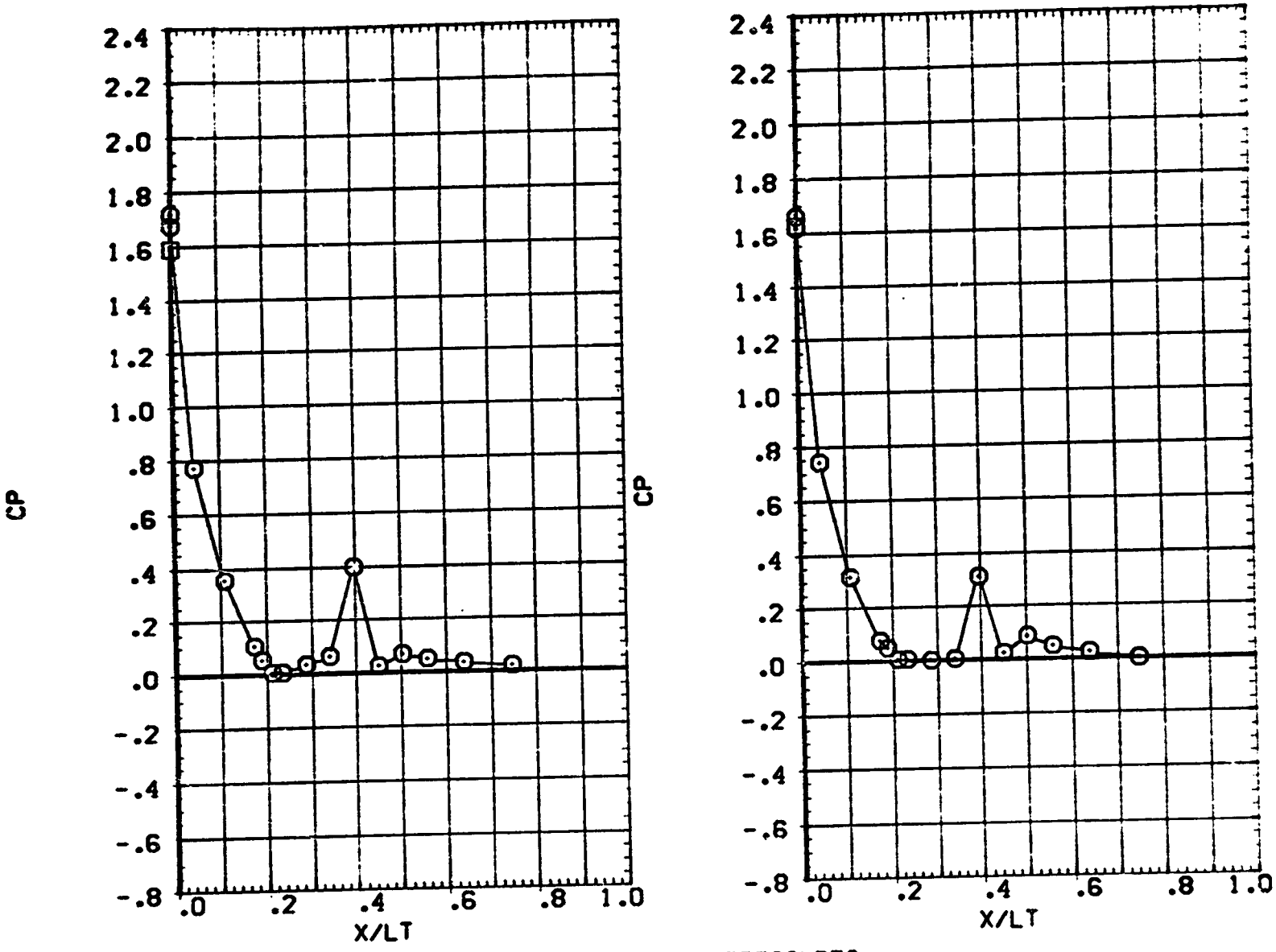


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

	PHI	BETA	MACH
	180.000	4.480	3.502
	270.000	8.910	

PARAMETRIC VALUES

ALPHAT	-8.000	SPRINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



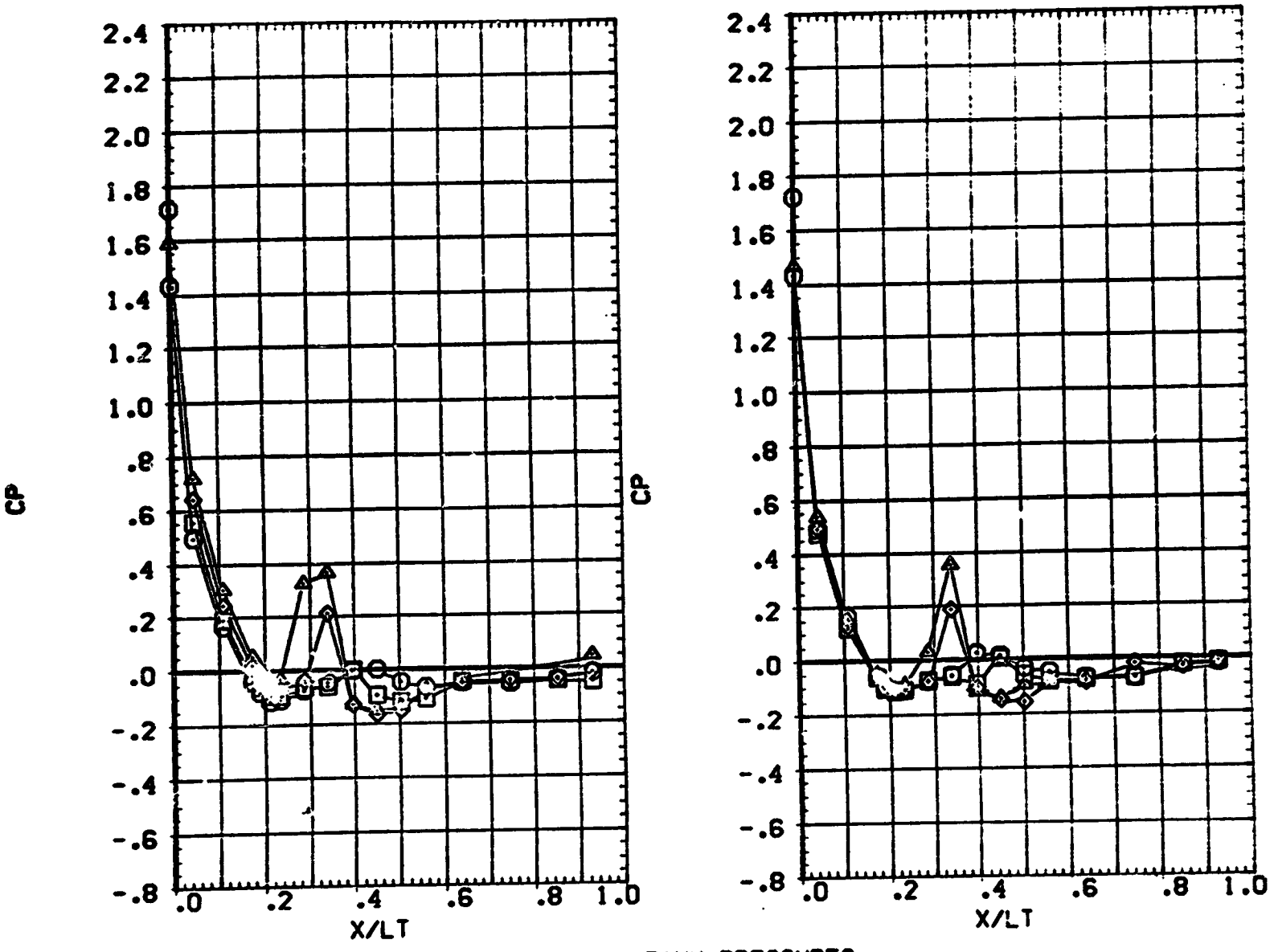
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 32A + S3 + T9 EXTERNAL TANK (RBNT04)

SYMBOL	PHI	BETAT	MACH
	.000	-4.190	2.498
	30.000	2.180	
	60.000		
	90.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLP	.000		



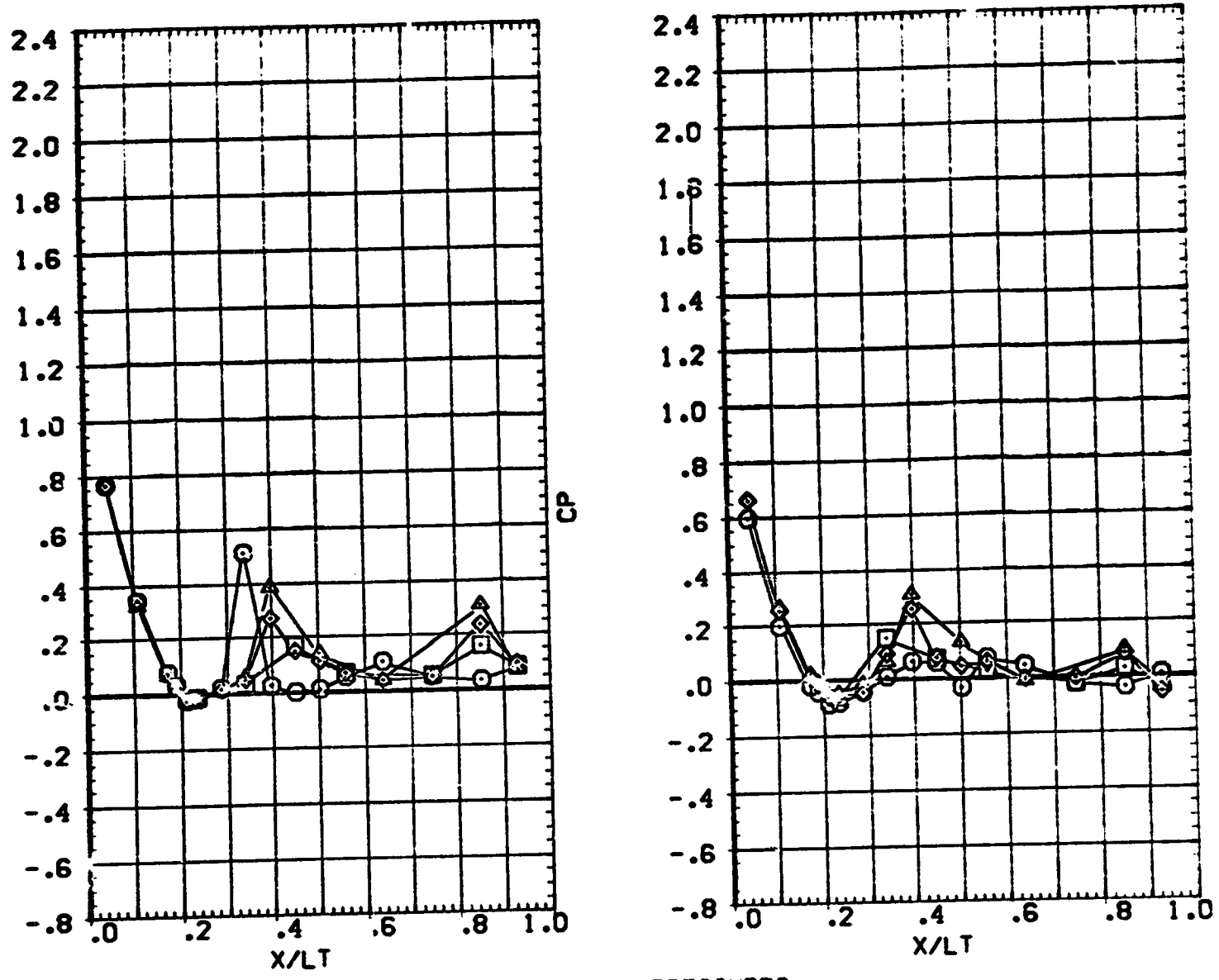
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 IA9 02A - S3 + T9 EXTERNAL TANK (RBNT04)

SYMBOL	PHI	BETA	MACH
○	120.000	-4.190	2.498
□	135.000	2.180	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



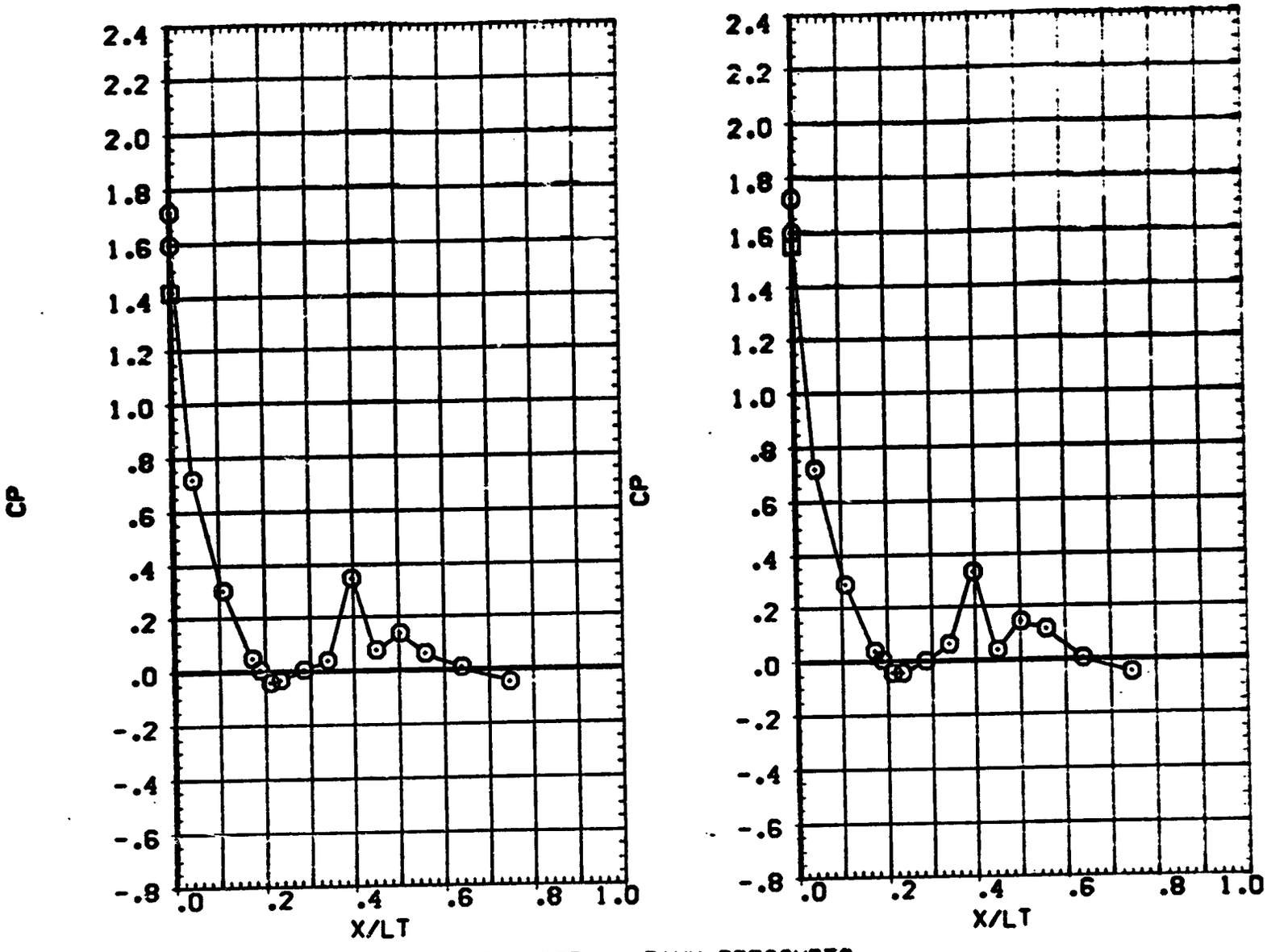
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A8 32A + S3 + T8 EXTERNAL TANK (RBNT04)

SYMBOL	PHI	BETAT	MACH
□	180.000	-4.190	2.498
▽	270.000	2.180	

PARAMETRIC VALUES

ALPHAT	-4.000	DRBINC	.000
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



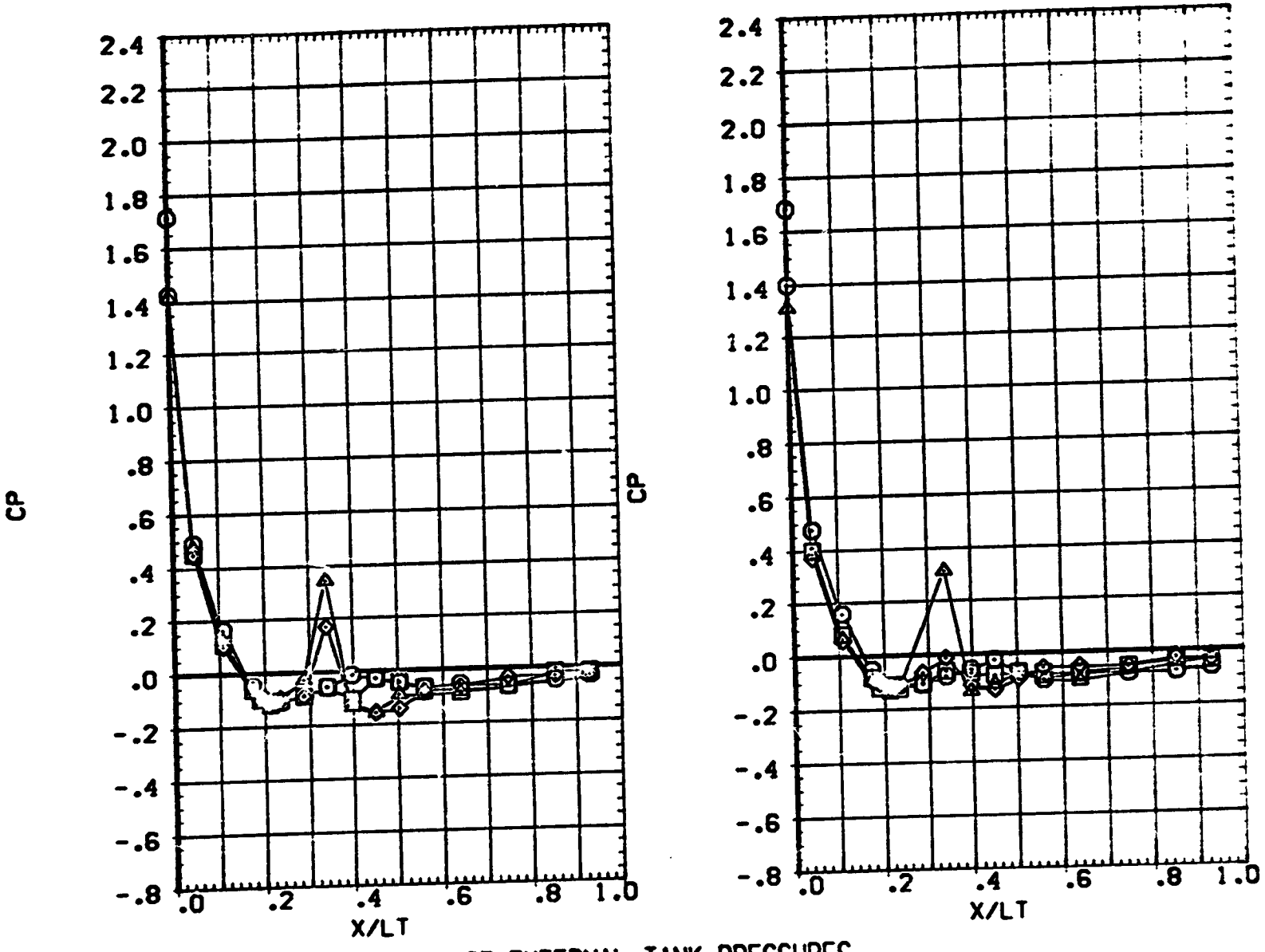
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 C2A + S3 + I9 EXTERNAL TANK (RBNT04)

SYMBOL	PHI	BETAT	MACH
○	.000	4.300	2.498
□	30.000	8.550	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBIT	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



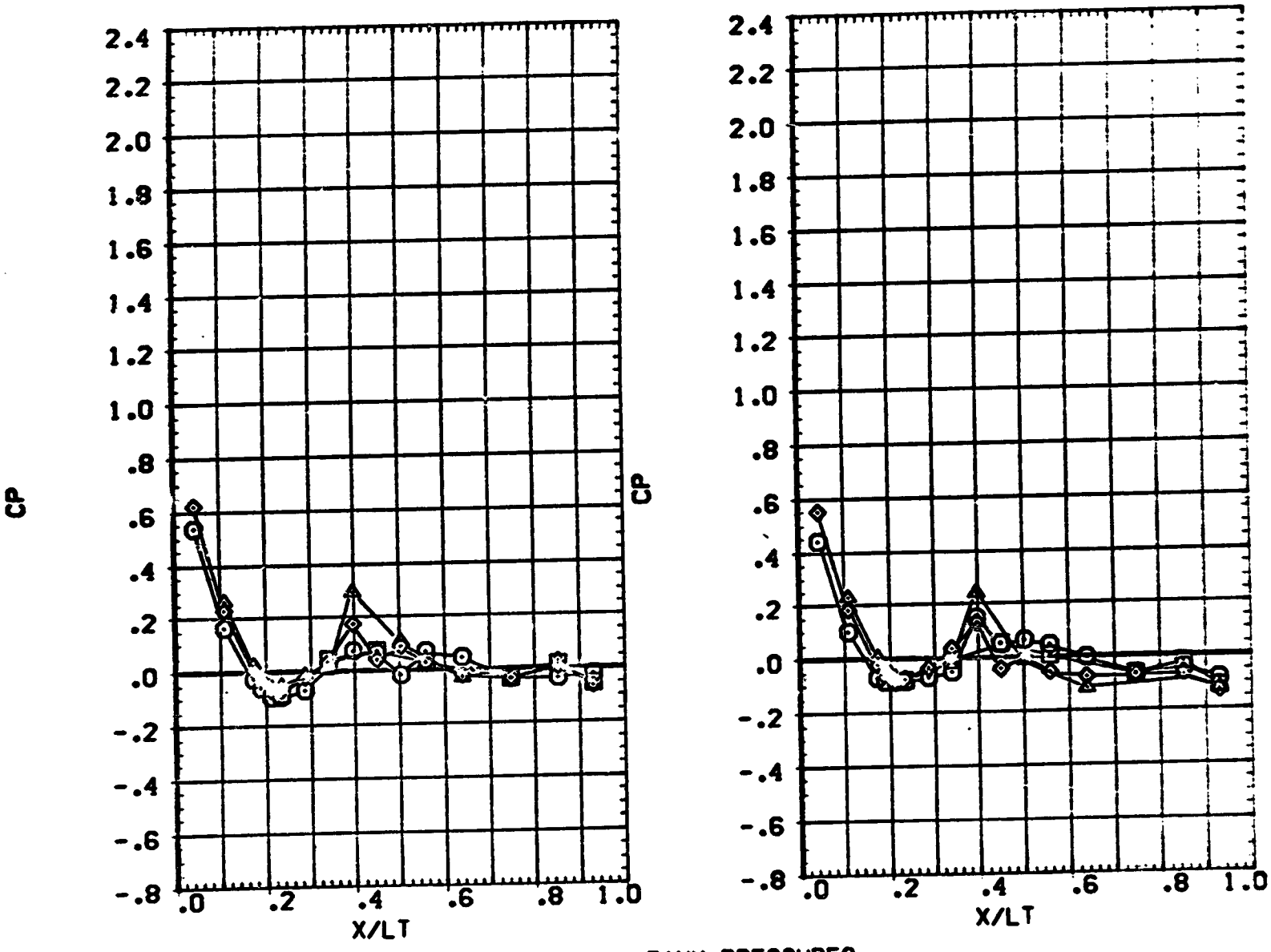
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBNTC4)

SYMBOL	PHI	BETAT	MACH
○	:20.000	4.300	2.498
□	:35.000	8.550	
◇	:50.000		
△	:65.000		

PARAMETRIC VALUES

ALPHAT	-4.000	SPBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



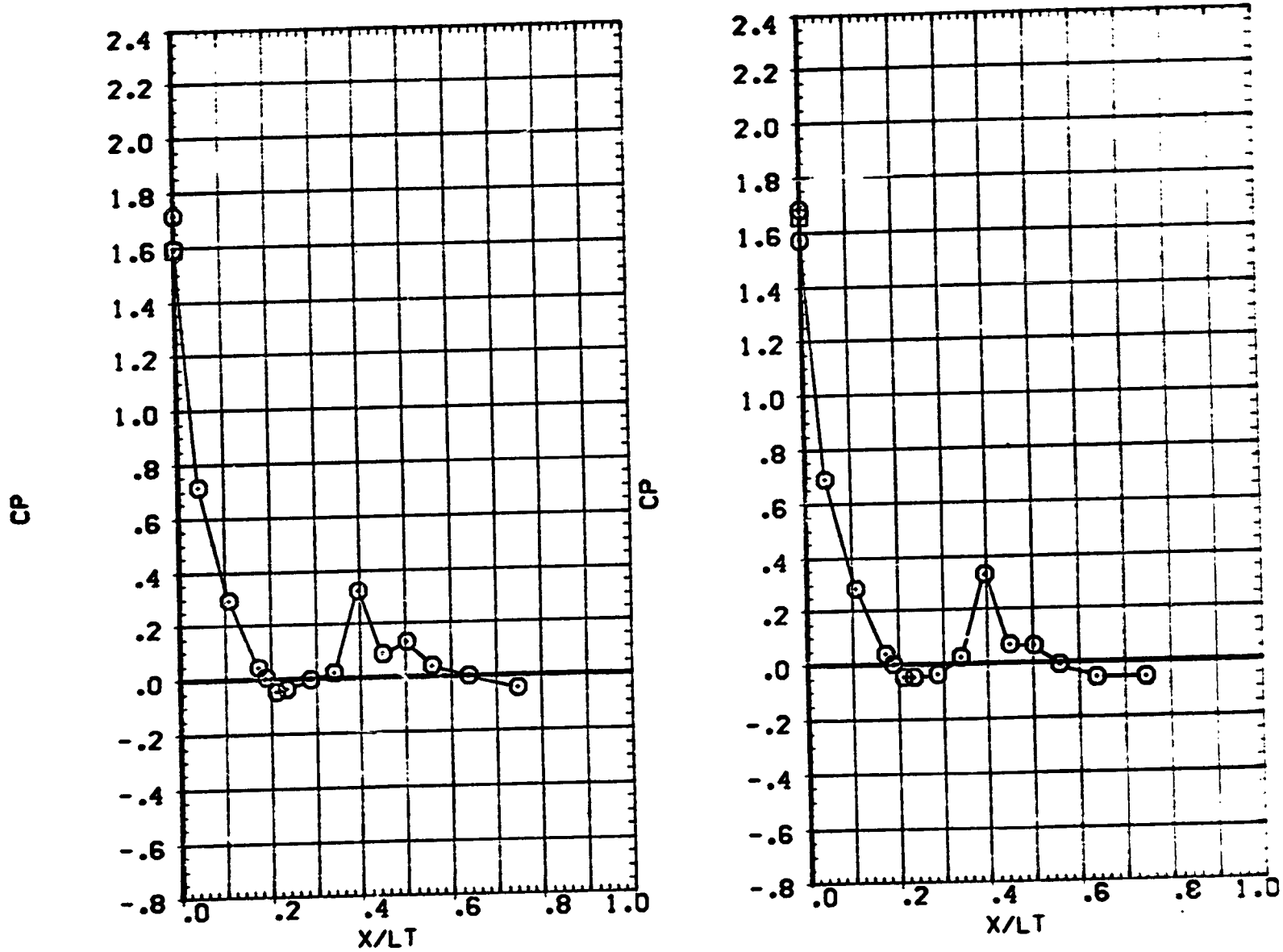
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 32A + S3 + T9 EXTERNAL TANK (RBNT04)

SYMBOL	PHI	BETAT	MACH
	180.000	4.300	2.498
	270.000	8.550	

PARAMETRIC VALUES

ALPHAT	-4.000	DBINC	.500
RUDDER	.000	ELEVN	.000
RUDFLR	.000		



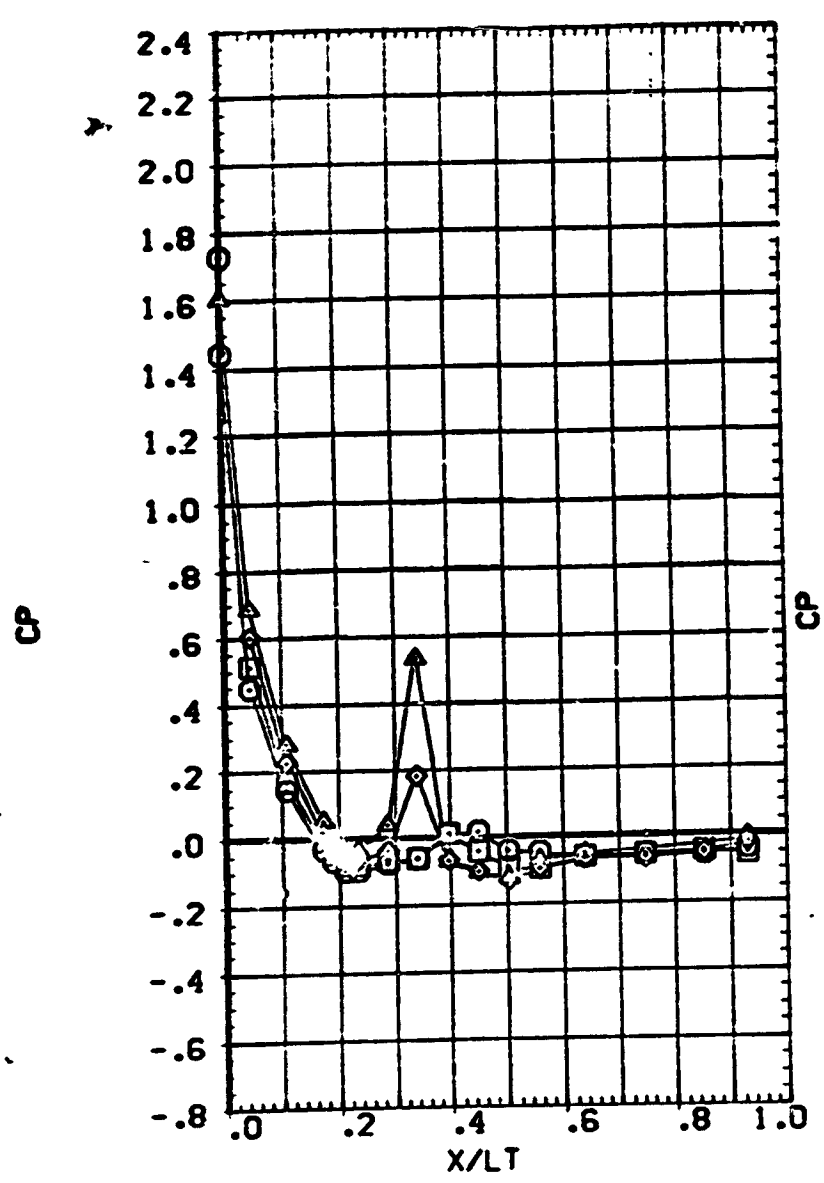
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

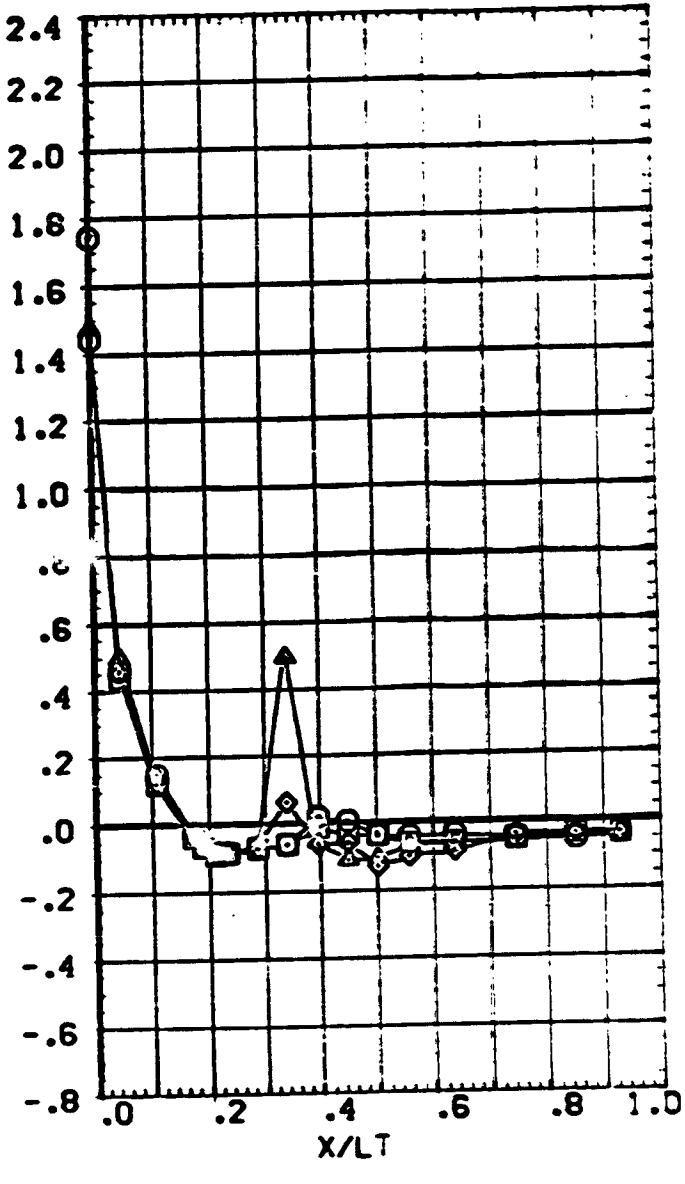
AMES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBNTC4)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.760	2.999
□	30.000	2.210	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	-4.000	DELTA	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		





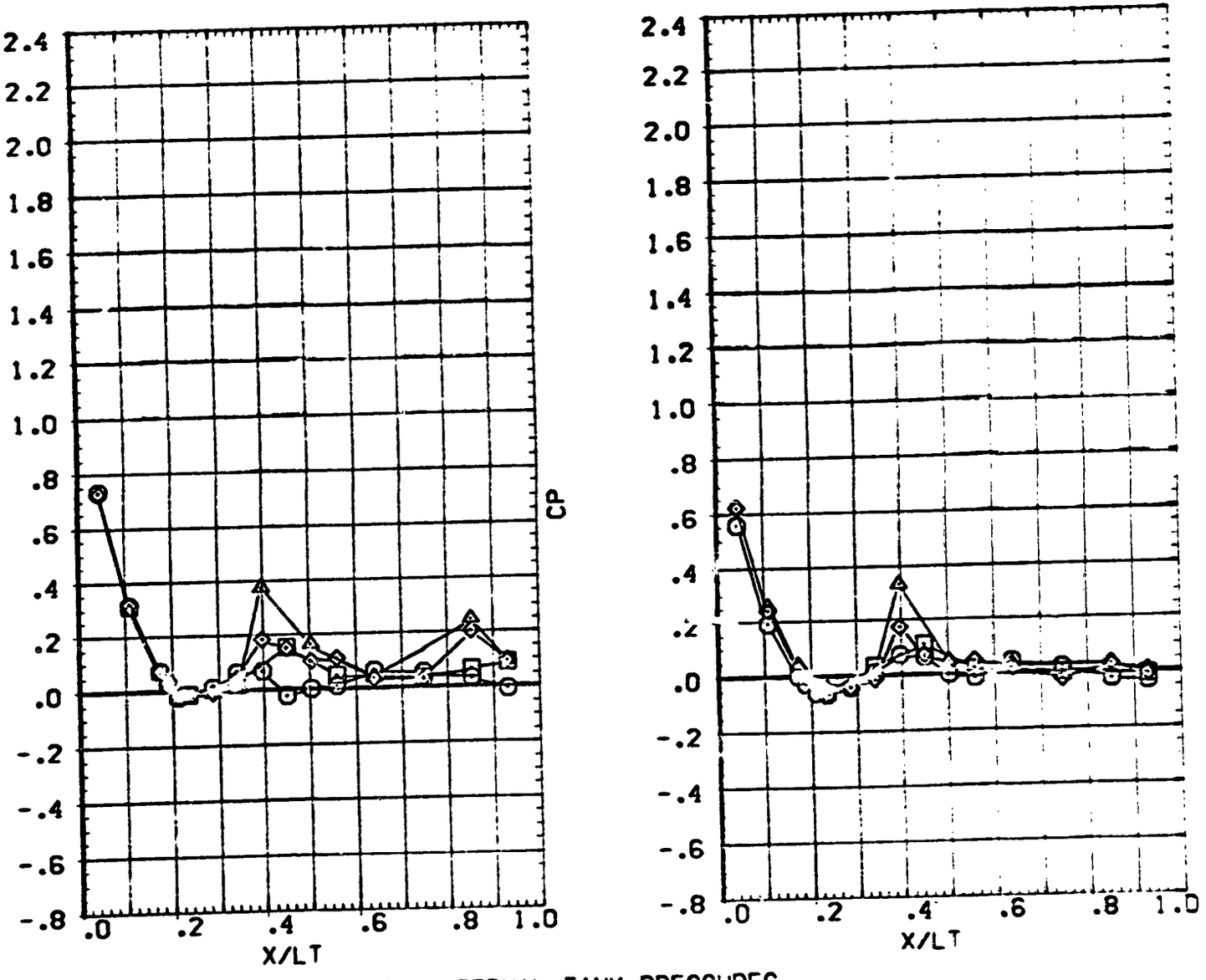
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 02A - S3 - T9 EXTERNAL TANK (RBNT04)

SYMBOL	PHI	BETAT	MACH
○	120.000	-4.260	2.999
□	135.000	2.210	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBIND	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



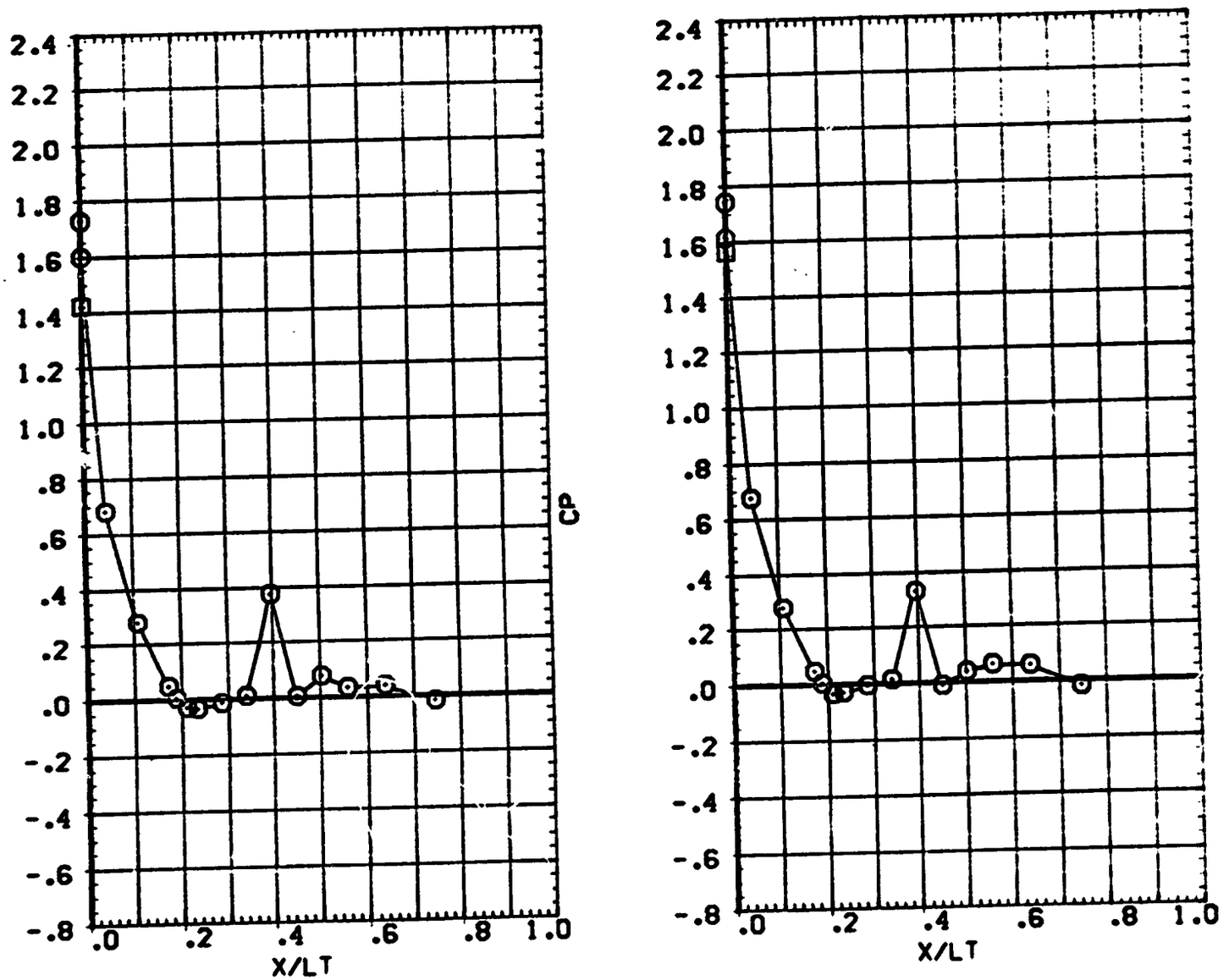
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 02A + S3 + T9 EXTERNAL TANK (RBNTC4)

SYMBOL	PHI	BETA	MACH
	180.000	-4.260	2.999
	270.000	2.210	

PARAMETRIC VALUES

ALPHAT	-4.000	SPOILR	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

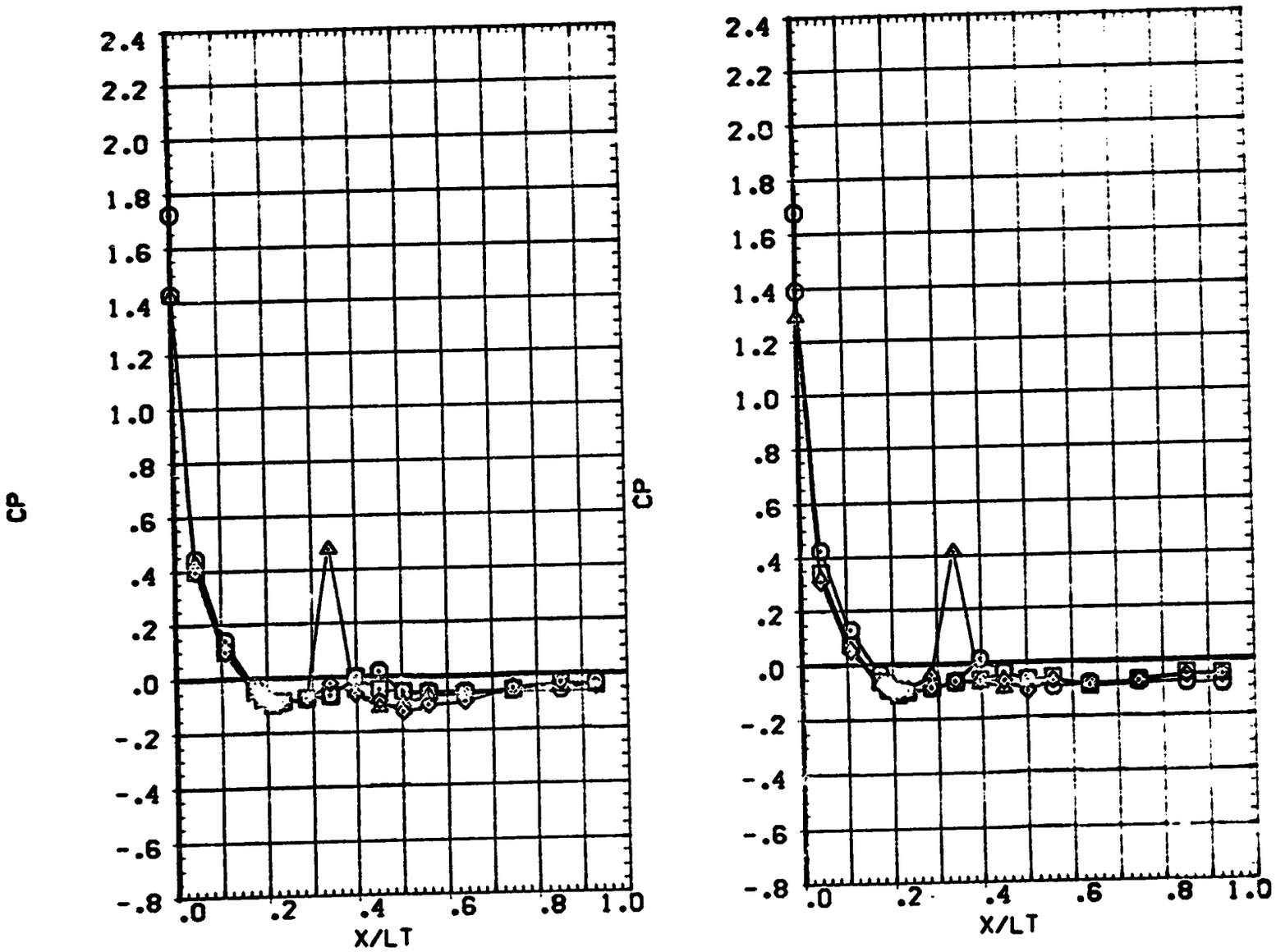


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL	PHI	BETAT	MACH
○	.000	4.380	2.999
□	30.000	8.710	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



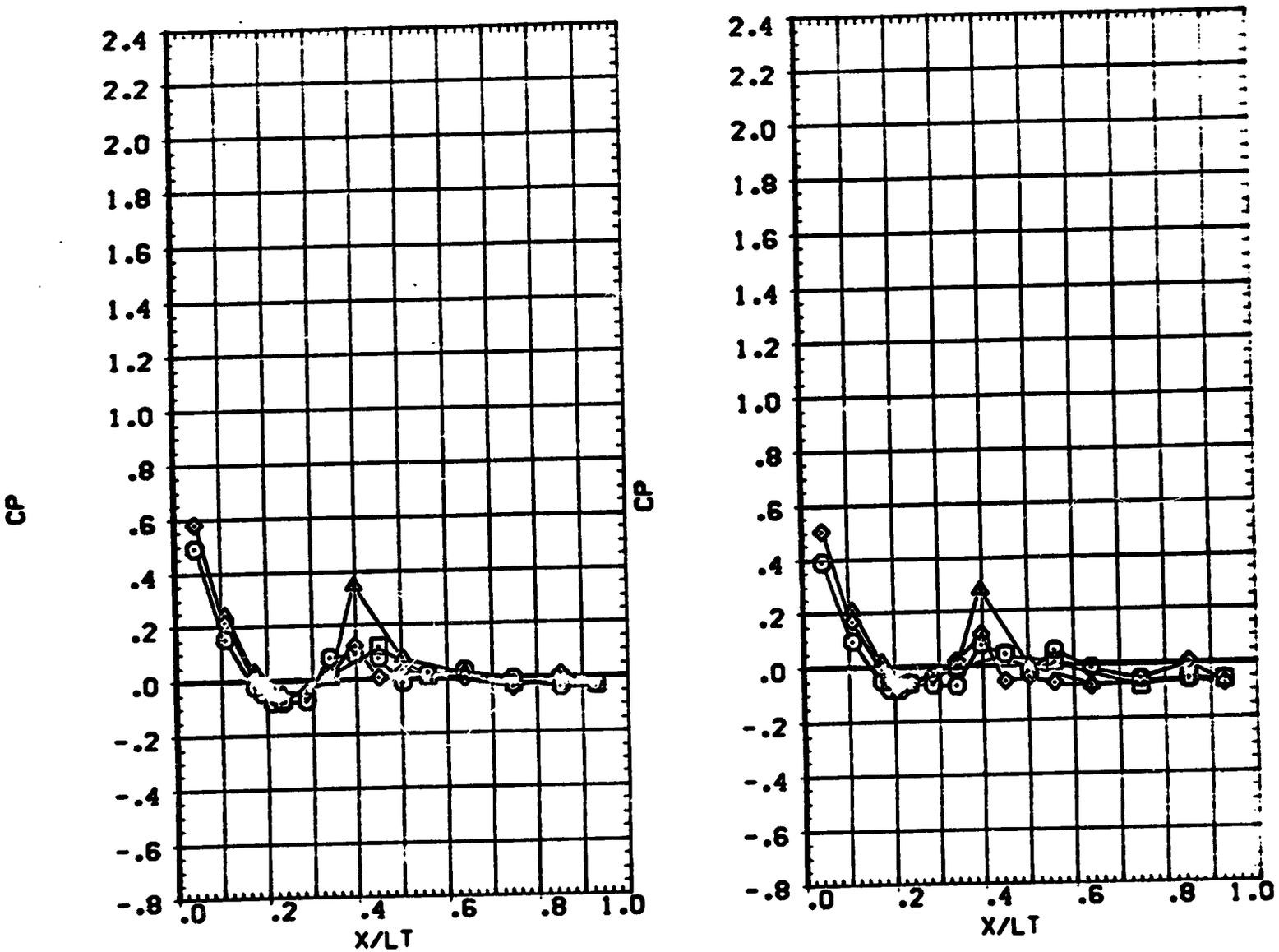
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBNT04)

SYMBOL	PHI	BETAT	MACH
○	120.000	4.380	2.999
□	135.000	8.710	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



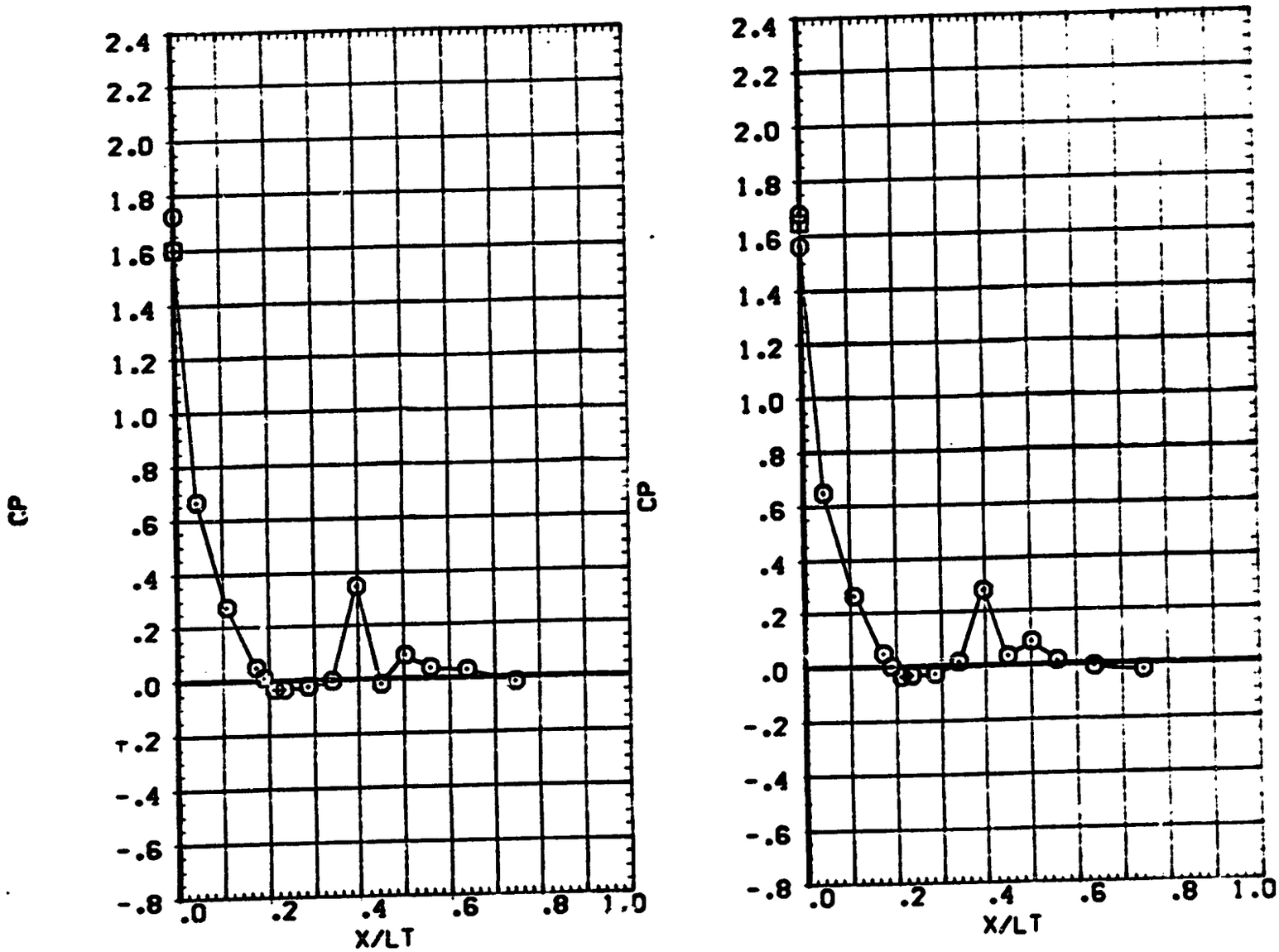
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBNTC4)

SYMBOL	PHI	BETA	MACH
	180.000	4.380	2.999
	270.000	8.710	

PARAMETRIC VALUES

ALPHA	-4.000	SPIN	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



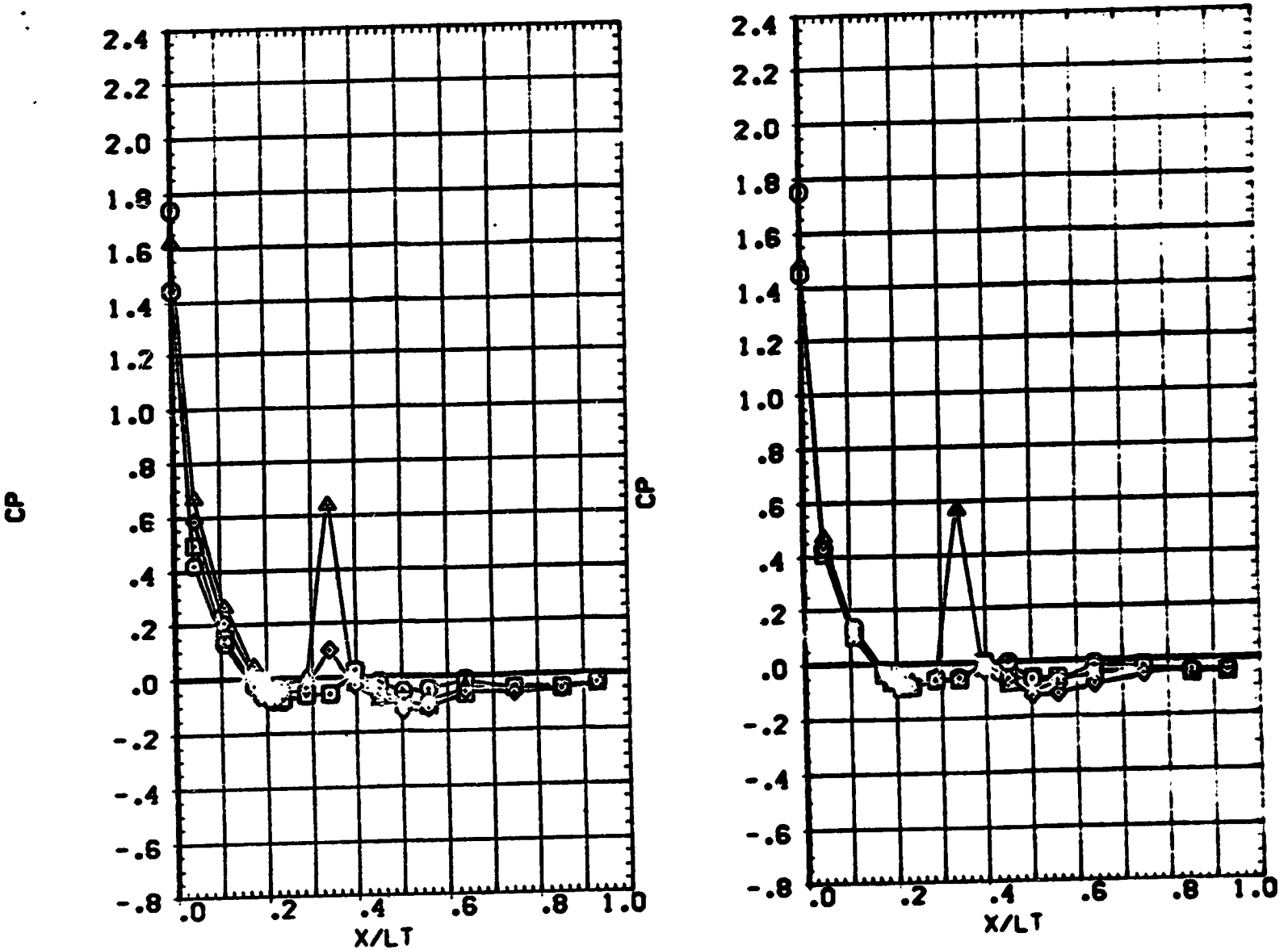
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-737 LAB 32A - S3 - T9 EXTERNAL TANK (RBNTC4)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.340	3.502
□	30.000	2.260	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	-4.000	DBINC	.000
RUDDER	.000	ELEVON	.000
ROLLR	.000		



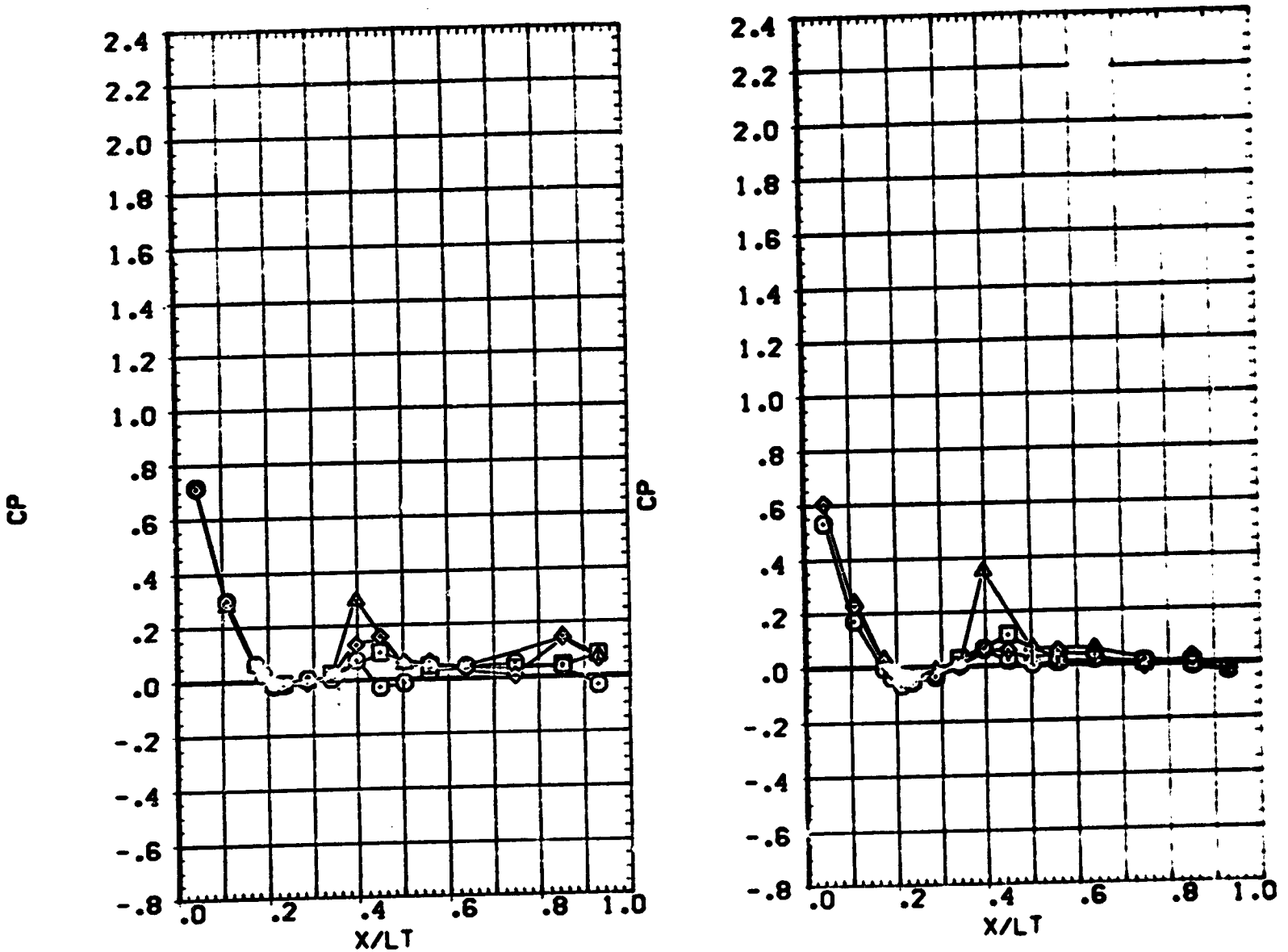
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNT04)

SYMBOL	PHI	BETAT	MACH
○	120.000	-4.340	3.502
□	135.000	2.260	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



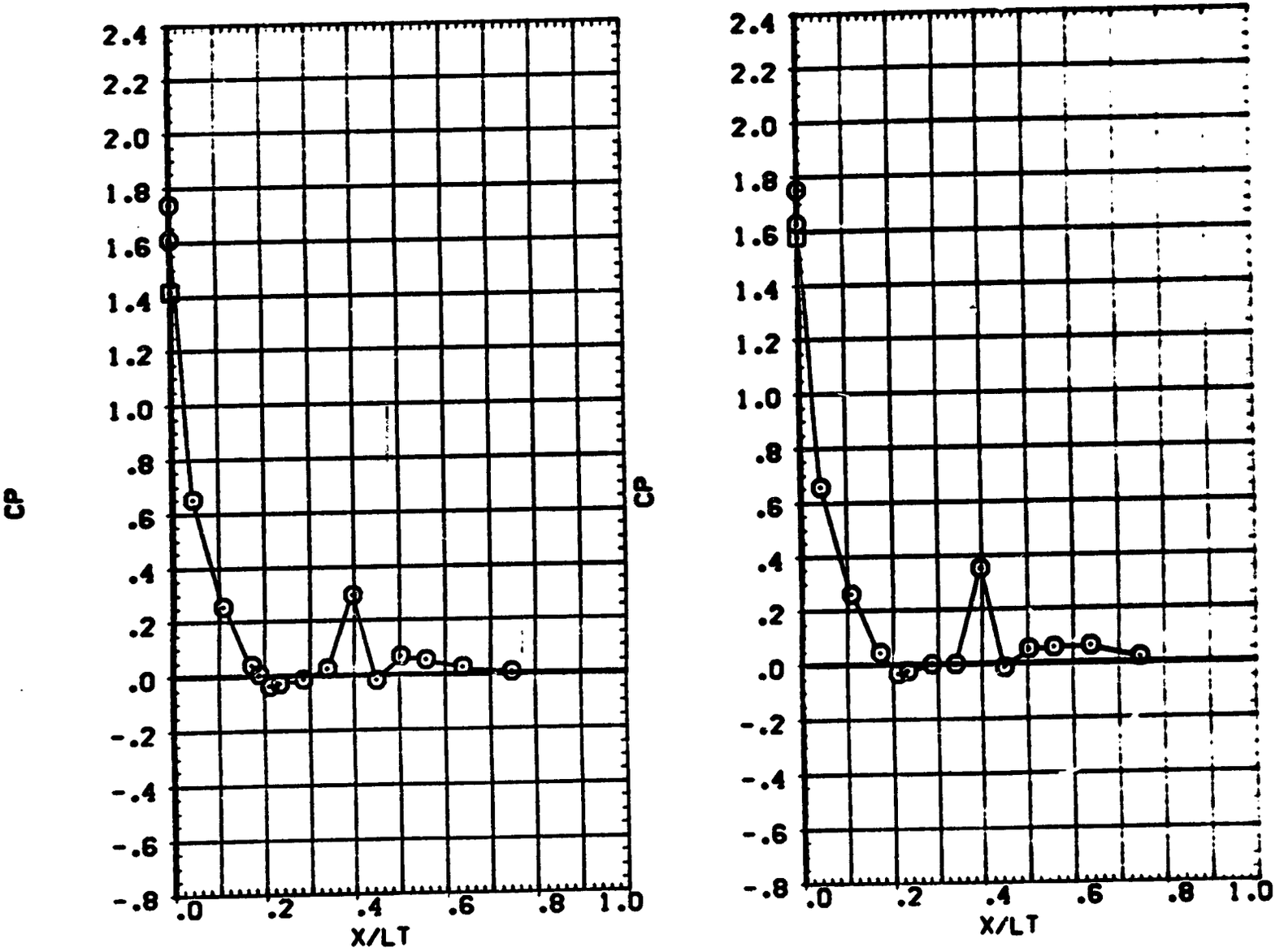
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA8 C2A + S3 + T8 EXTERNAL TANK (RBNTC4)

SYMBOL	PHI	BETAT	MACH
O	180.0000	-4.340	3.502
□	270.0000	2.260	

PARAMETRIC VALUES

ALPHAT	-4.0000	SREF/C	.0000
RUDDER	.0000	C.G.X	.0000
RUDLR	.0000		



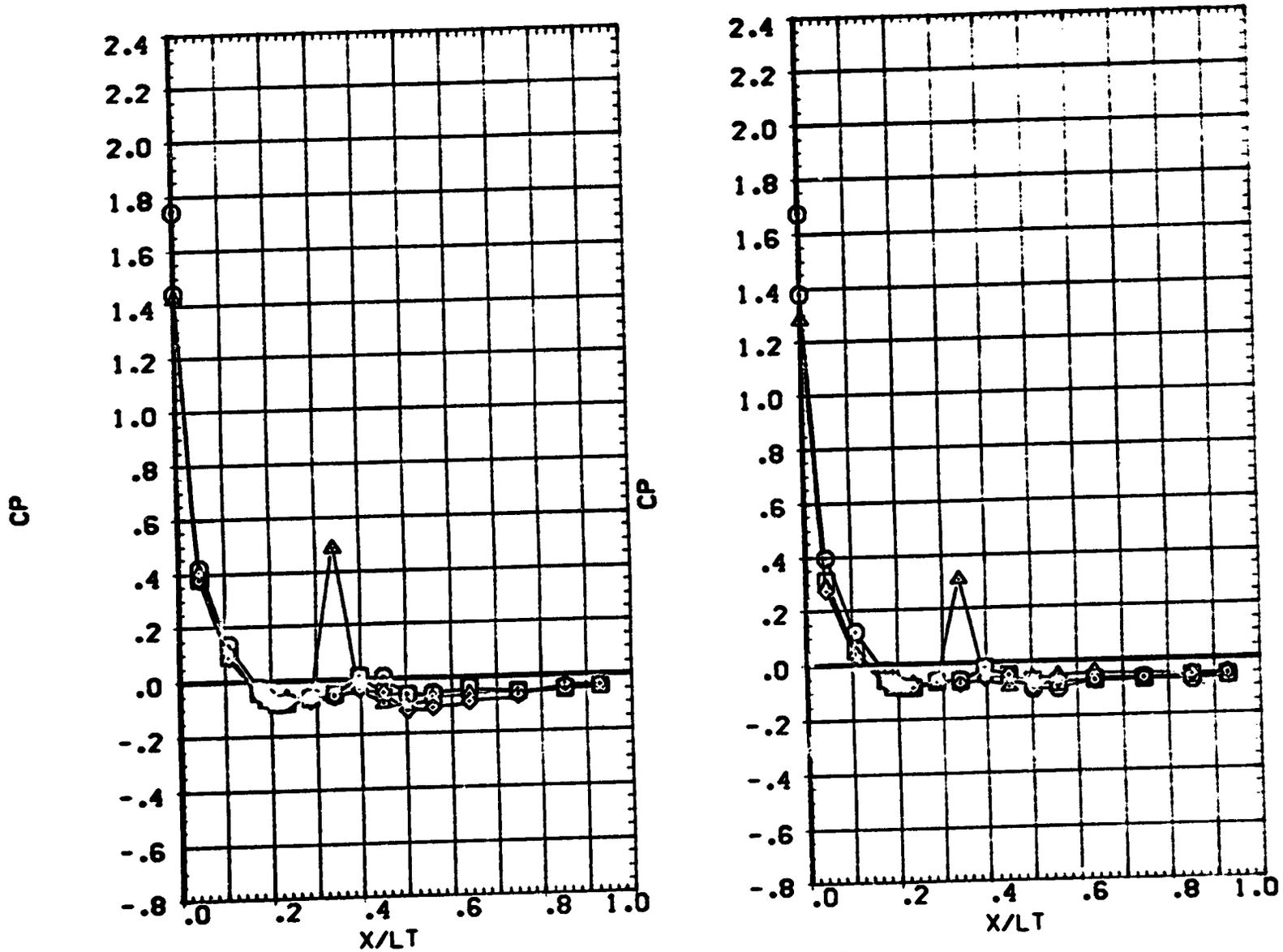
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 02A - S3 - T9 EXTERNAL TANK (RBNT04)

SYMBOL	PHI	DETAT	MACH
○	.000	4.460	3.502
□	30.000	8.870	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		1



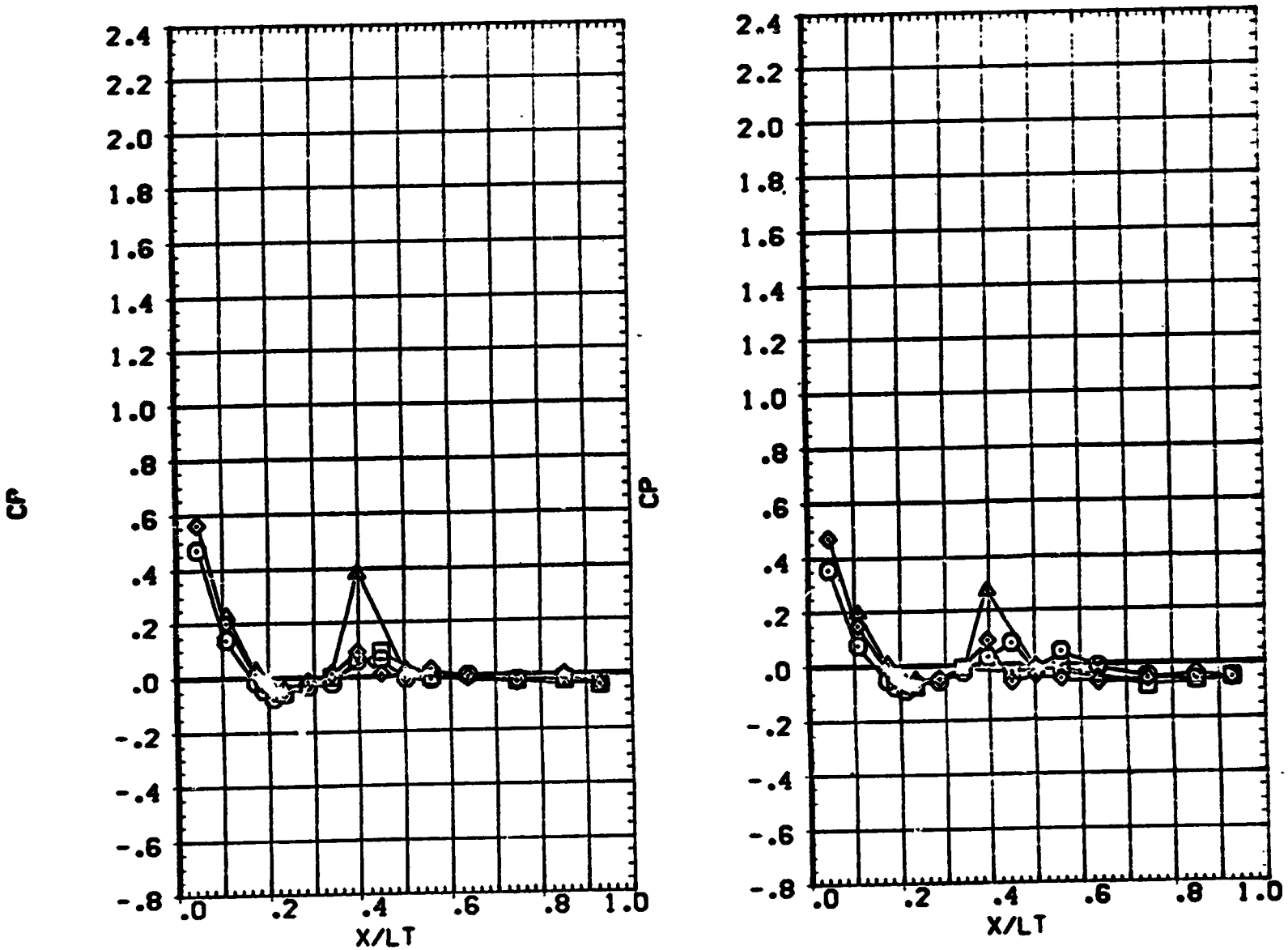
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 32A - S3 + T9 EXTERNAL TANK (RBNT04)

SYMBOL	PHI	BETAT	MACH
	120.000	4.460	3.502
	135.000	8.870	
	150.000		
	165.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



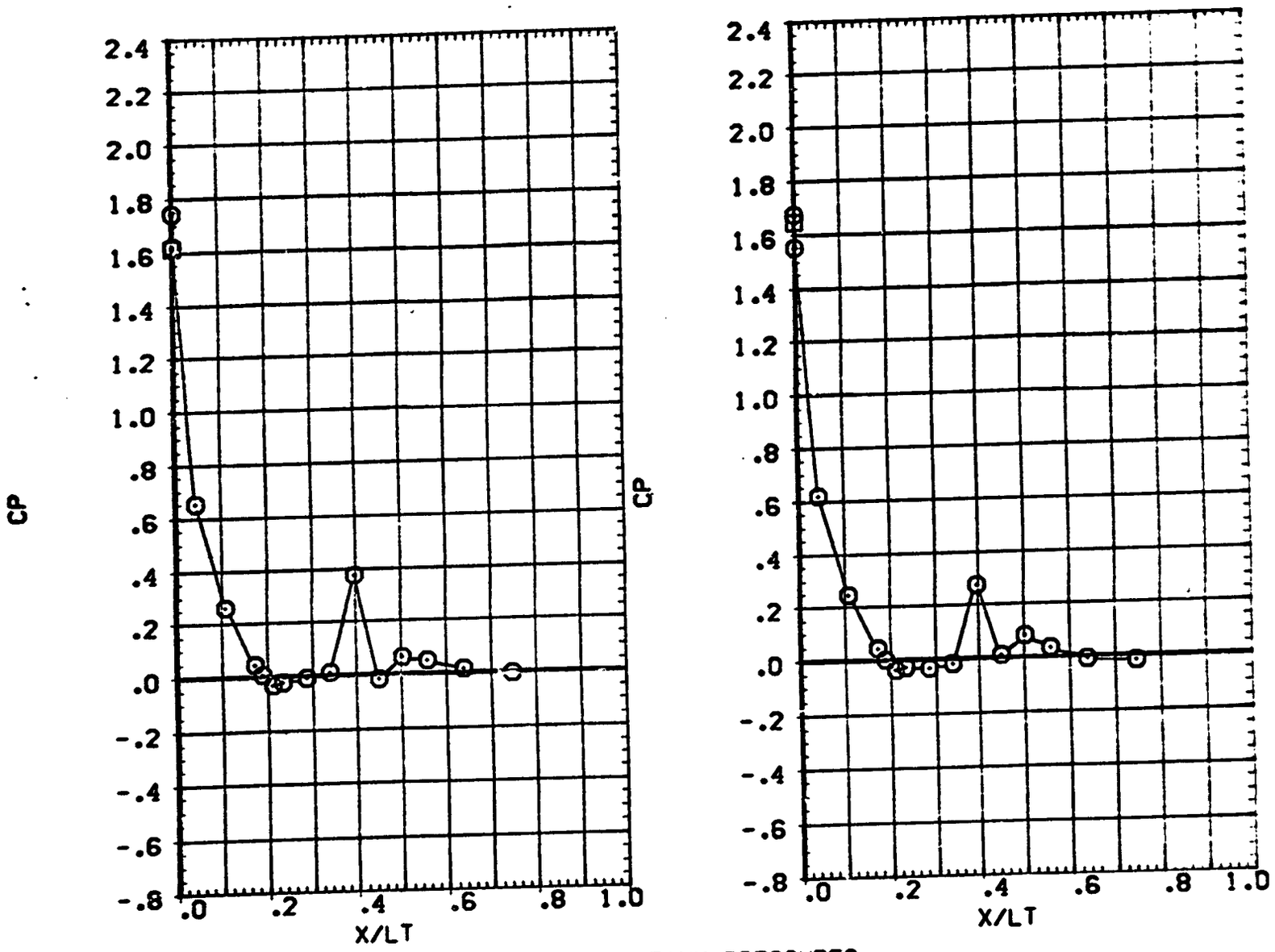
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA8 02A + S3 + T9 EXTERNAL TANK (RBN 04)

SYMBOL	PHI	BETAT	MACH
○	180.000	4.460	3.502
□	270.000	8.870	

PARAMETRIC VALUES

ALPHAT	-4.000	SPOILR	.000
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



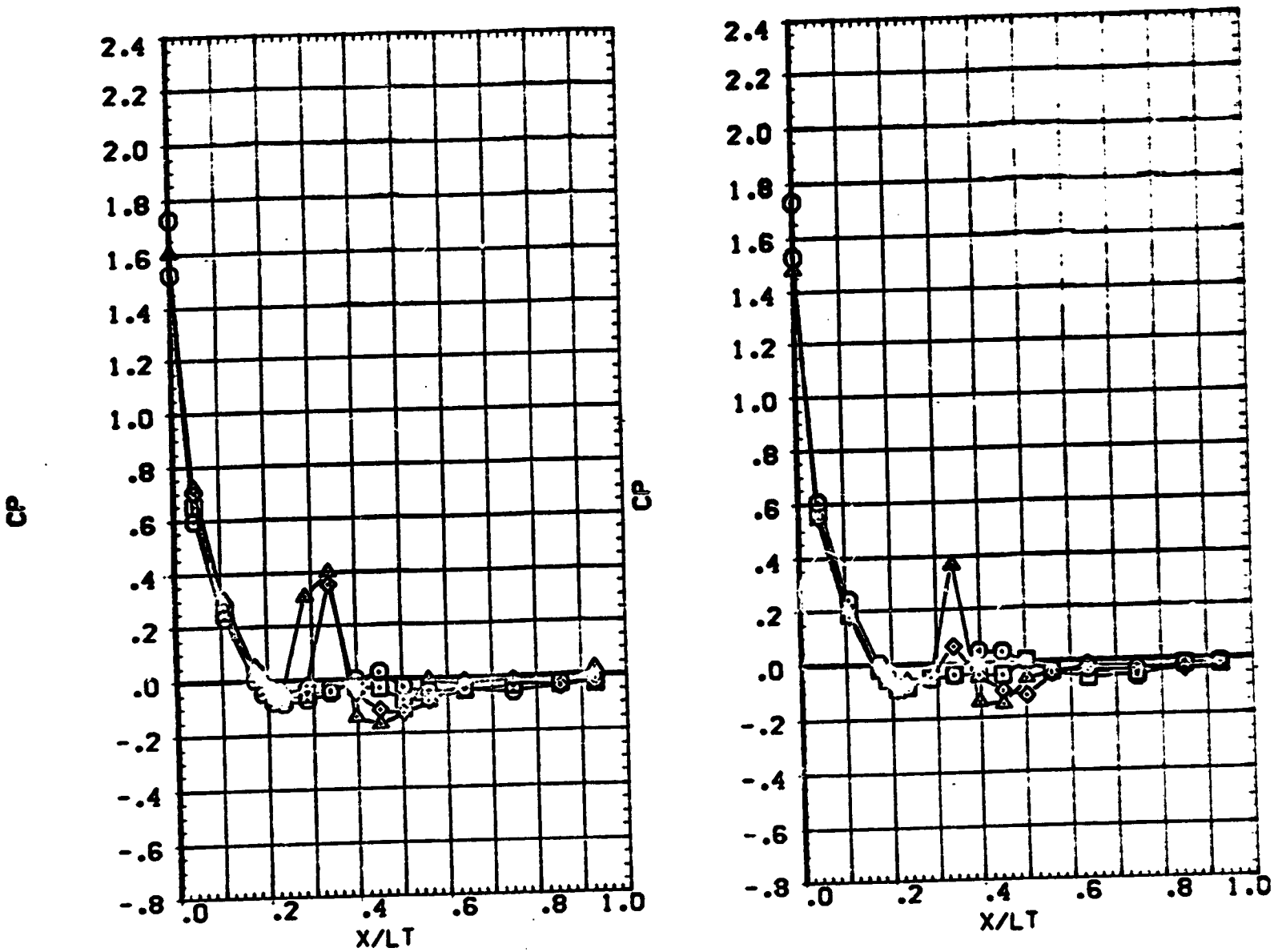
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AYES 87-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBN 06)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.190	2.498
◇	30.000	2.170	
△	60.000		
▷	90.000		

PARAMETRIC VALUES

ALPHAT	.000	SRBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



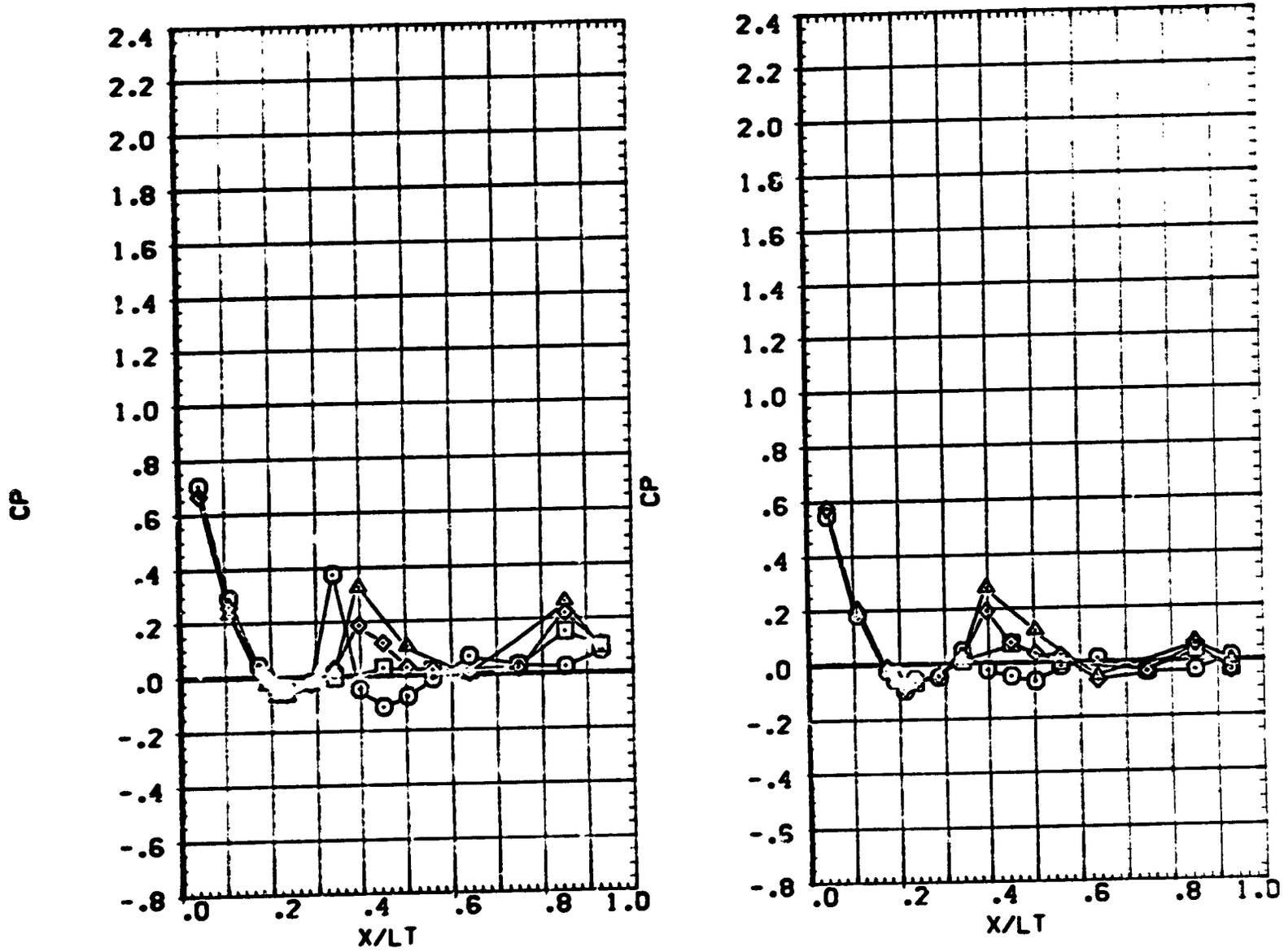
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 (A9 C2A + S3 + T9 EXTERNAL TANK (RBVTC6)

SYMBOL	PHI	BETA	MACH
○	20.000	-4.190	2.498
□	35.000	2.170	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	.000	SREV/C	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



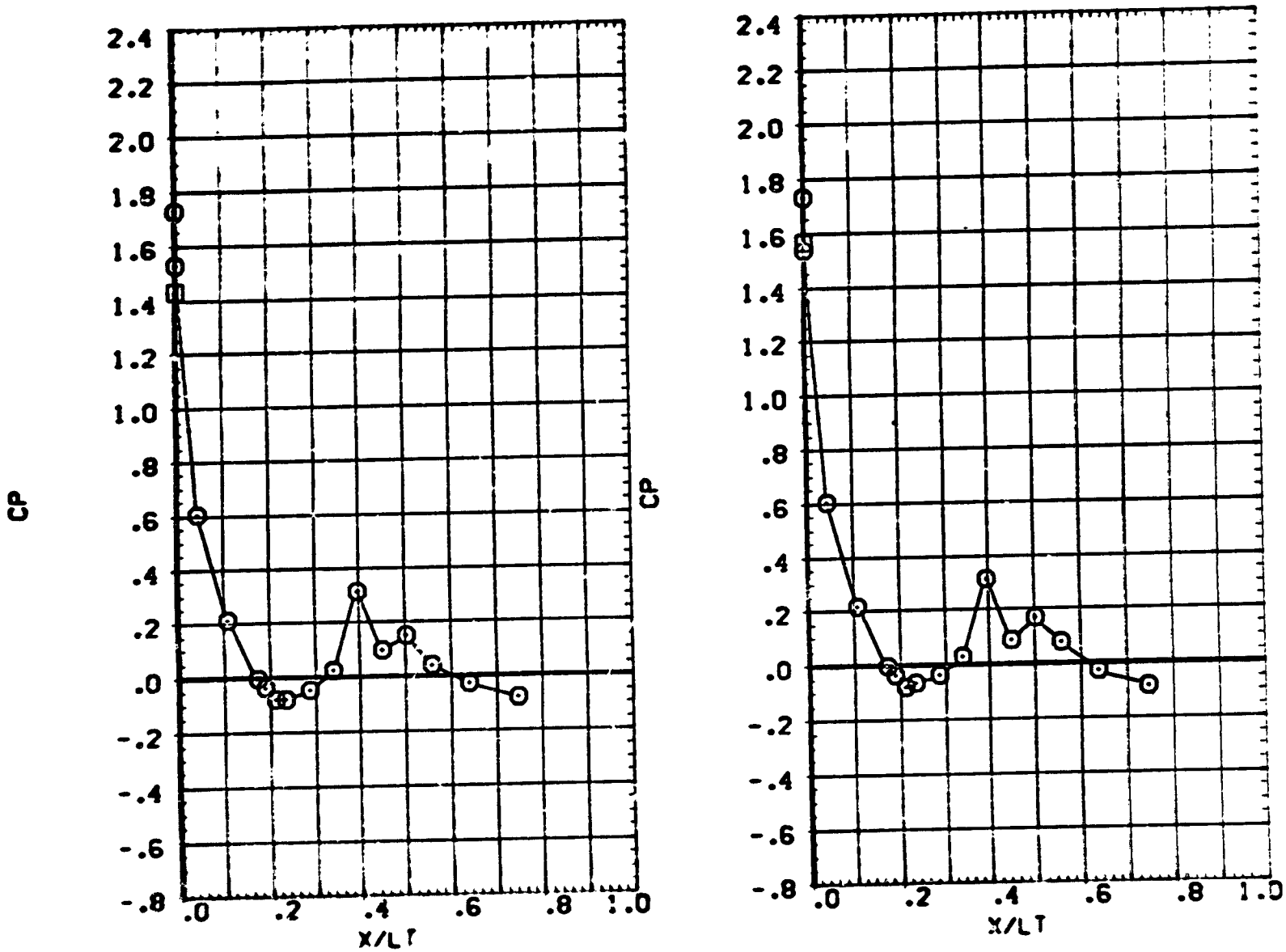
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AM-S 87-707 IA9 C2A - S3 - T9 EXTERNAL TANK (RBNT06)

SYMBOL	PHI	BETAT	MACH
○	180.000	-4.190	2.458
□	210.000	2.170	

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



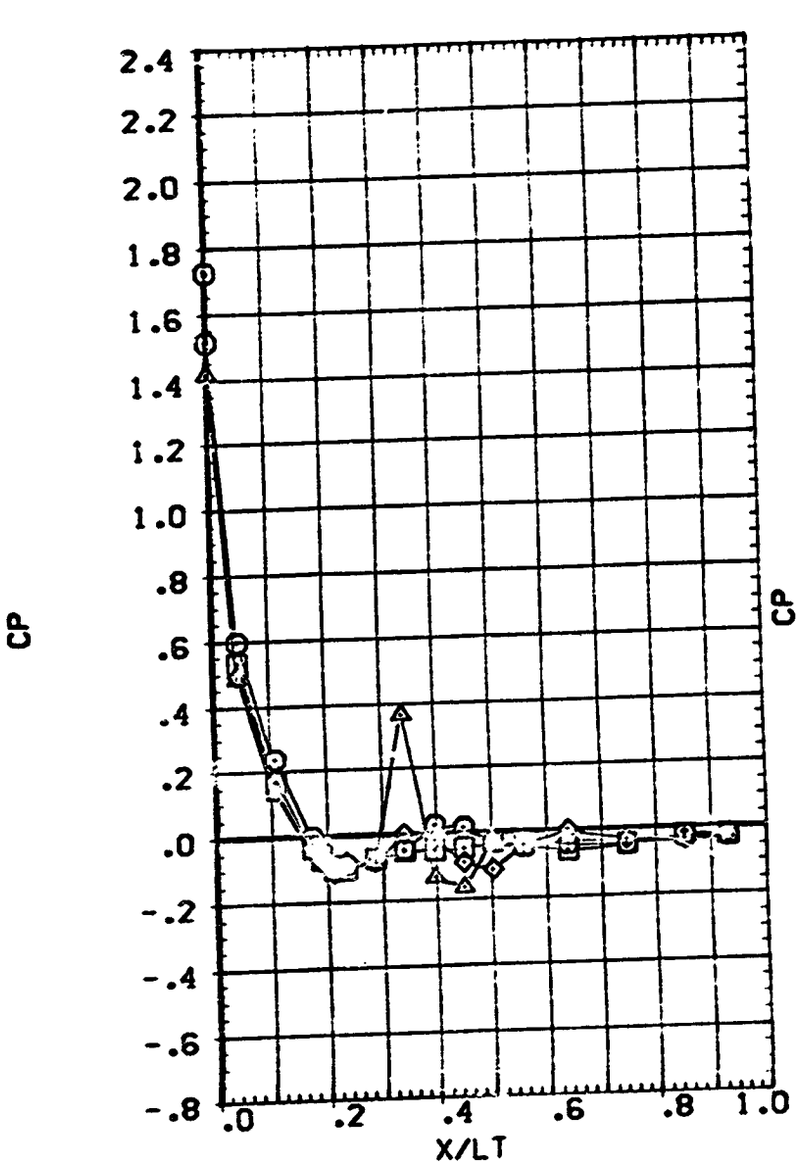
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

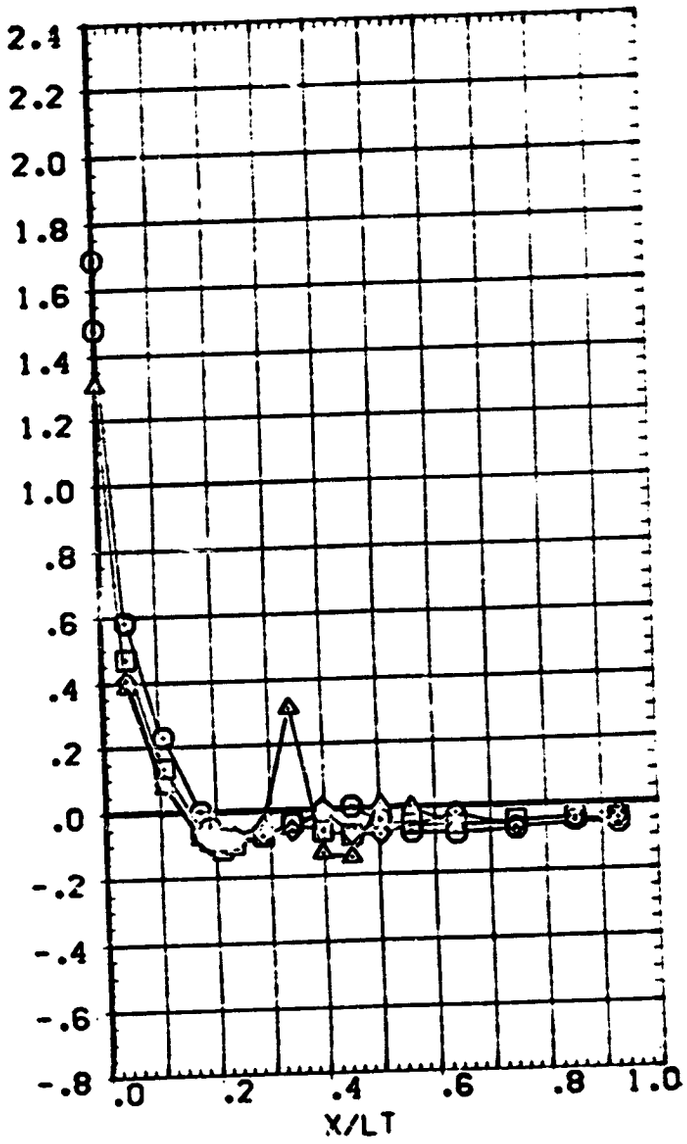
AYES 87-707 :A9 C2A + S3 + '9 EXTERNAL TANK (RBVTC6)

SYMBOL	PHI	BETAT	MACH
○	.000	4.290	2.498
□	30.000	8.540	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		





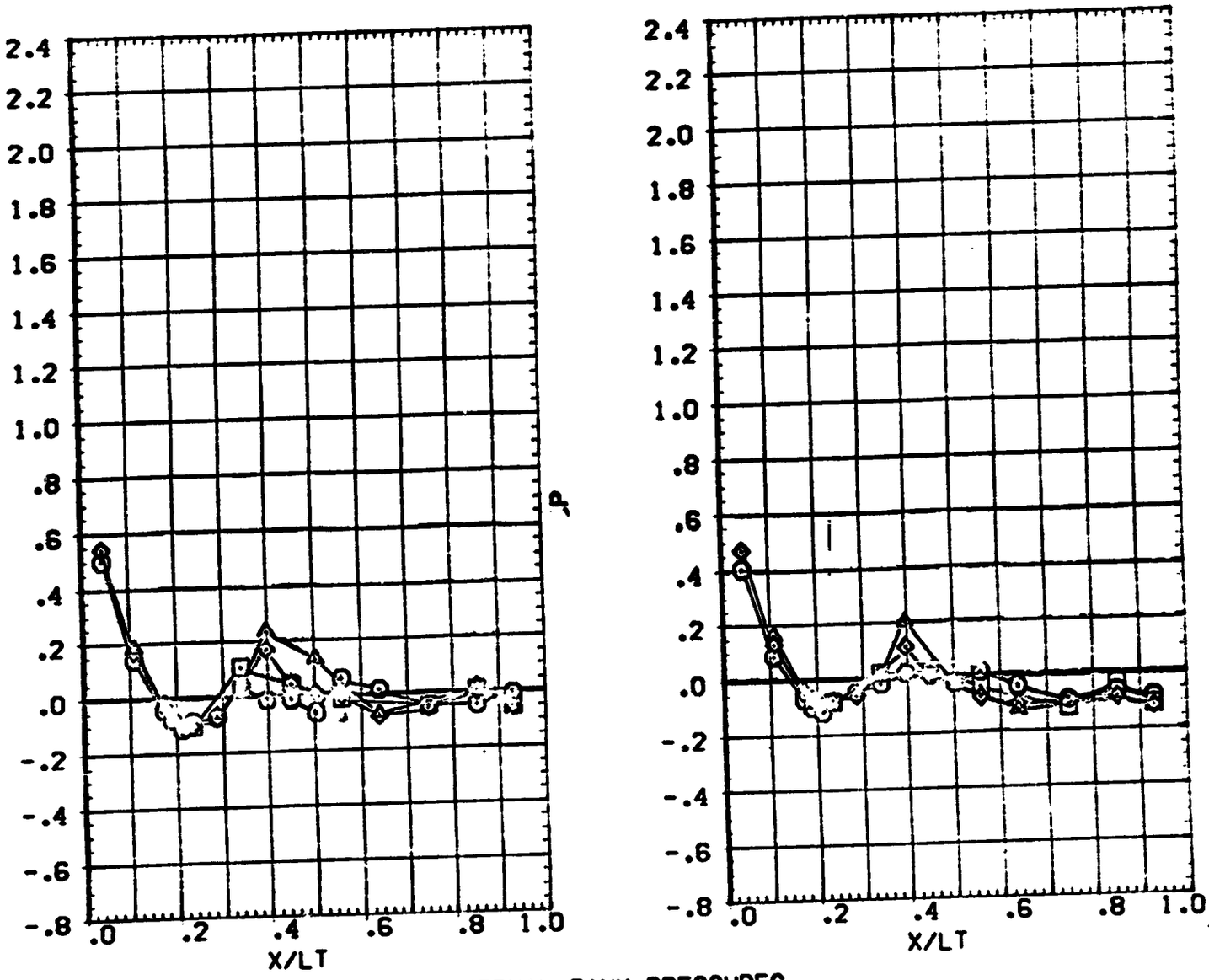
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 (A8 02A + S3 + T8 EXTERNAL TANK (RBNTC8)

SYMBOL	PHI	BETA	MACH
○	120.000	4.290	2.498
□	135.000	8.540	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHA	.000	SPEINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



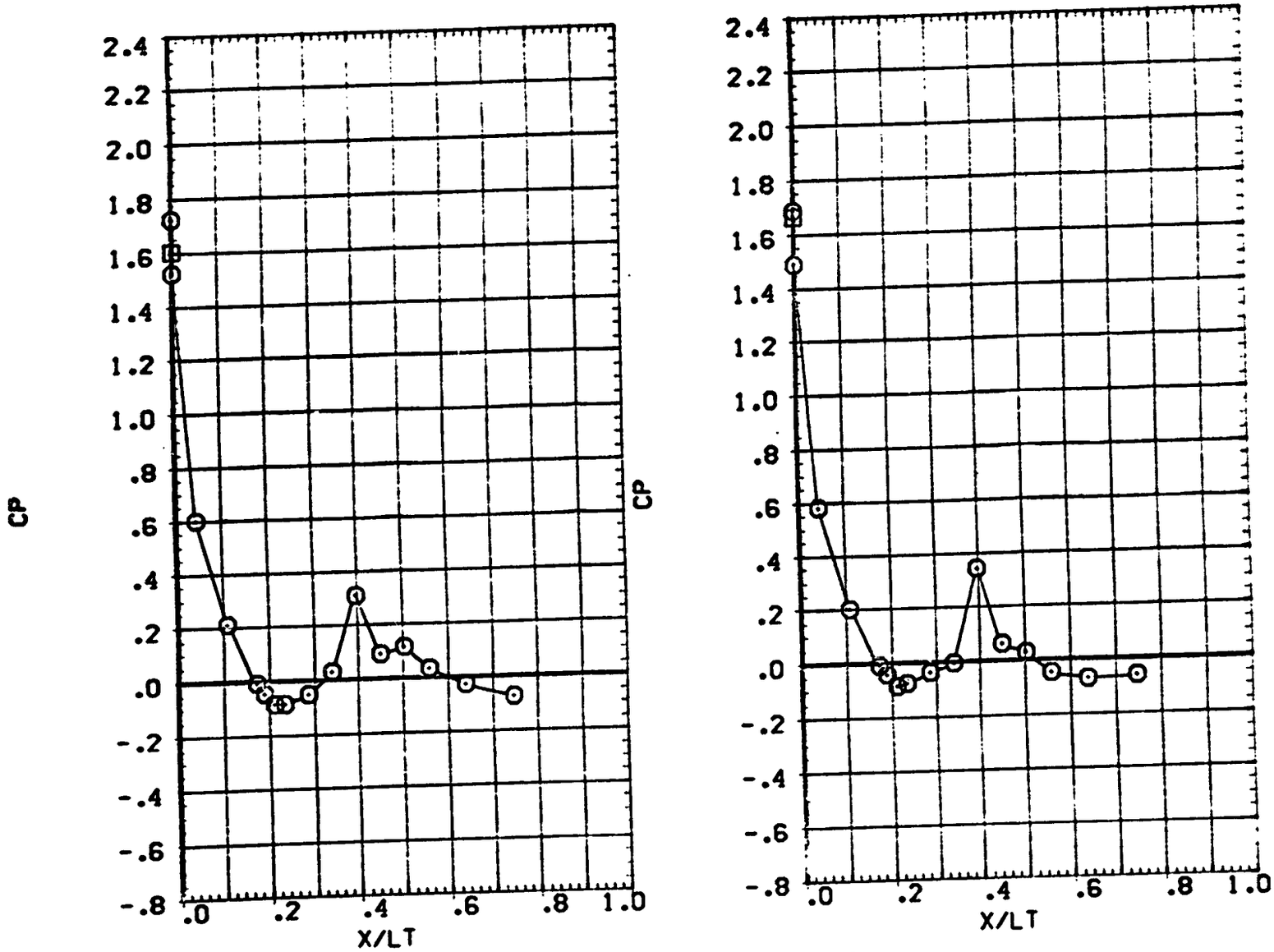
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 C2A • S3 • '9 EXTERNAL TANK (RBNTOS)

SYMBOL	PHI	BETAT	MACH
	180.0000	4.780	2.498
	270.0000	8.540	

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



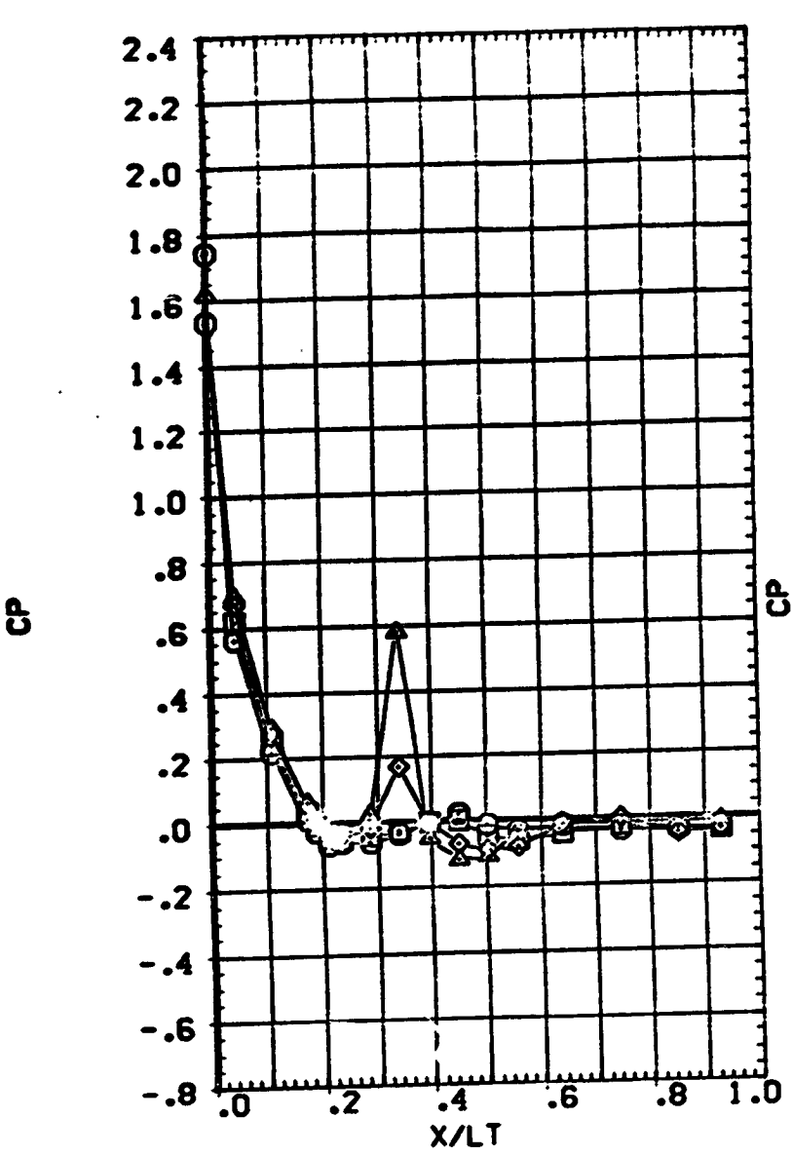
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

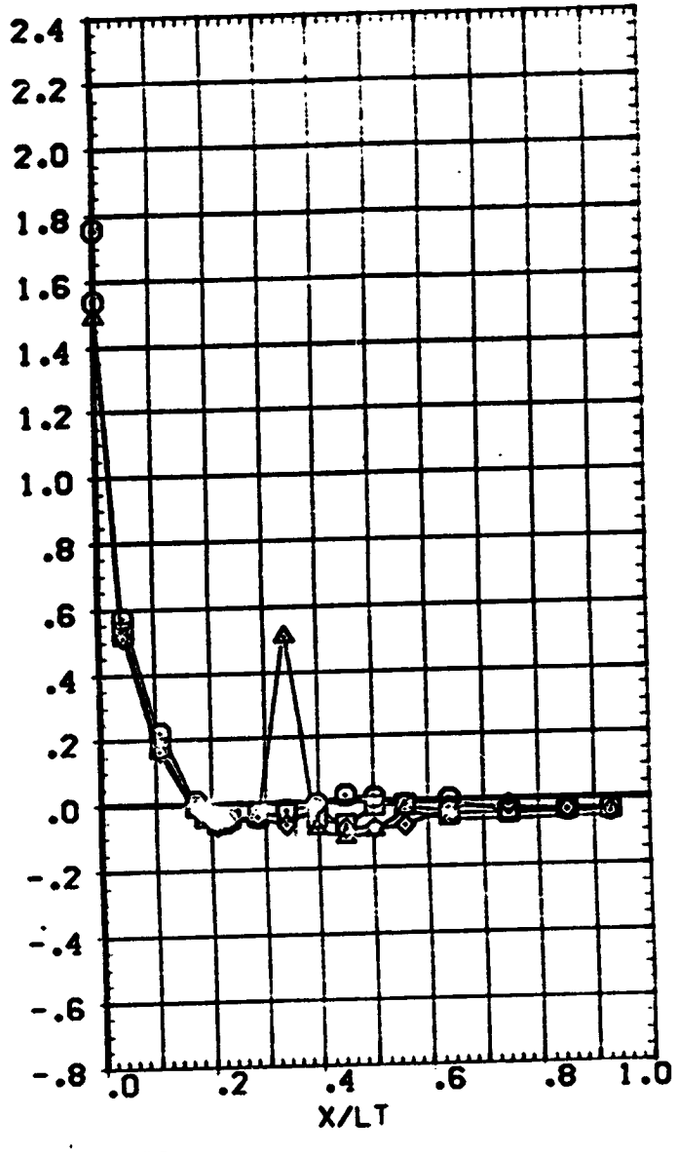
AMES 87-707 IA9 02A + 03 + 09 EXTERNAL TANK (RBVT06)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.270	2.999
□	30.000	2.210	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	.000	DPHINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		





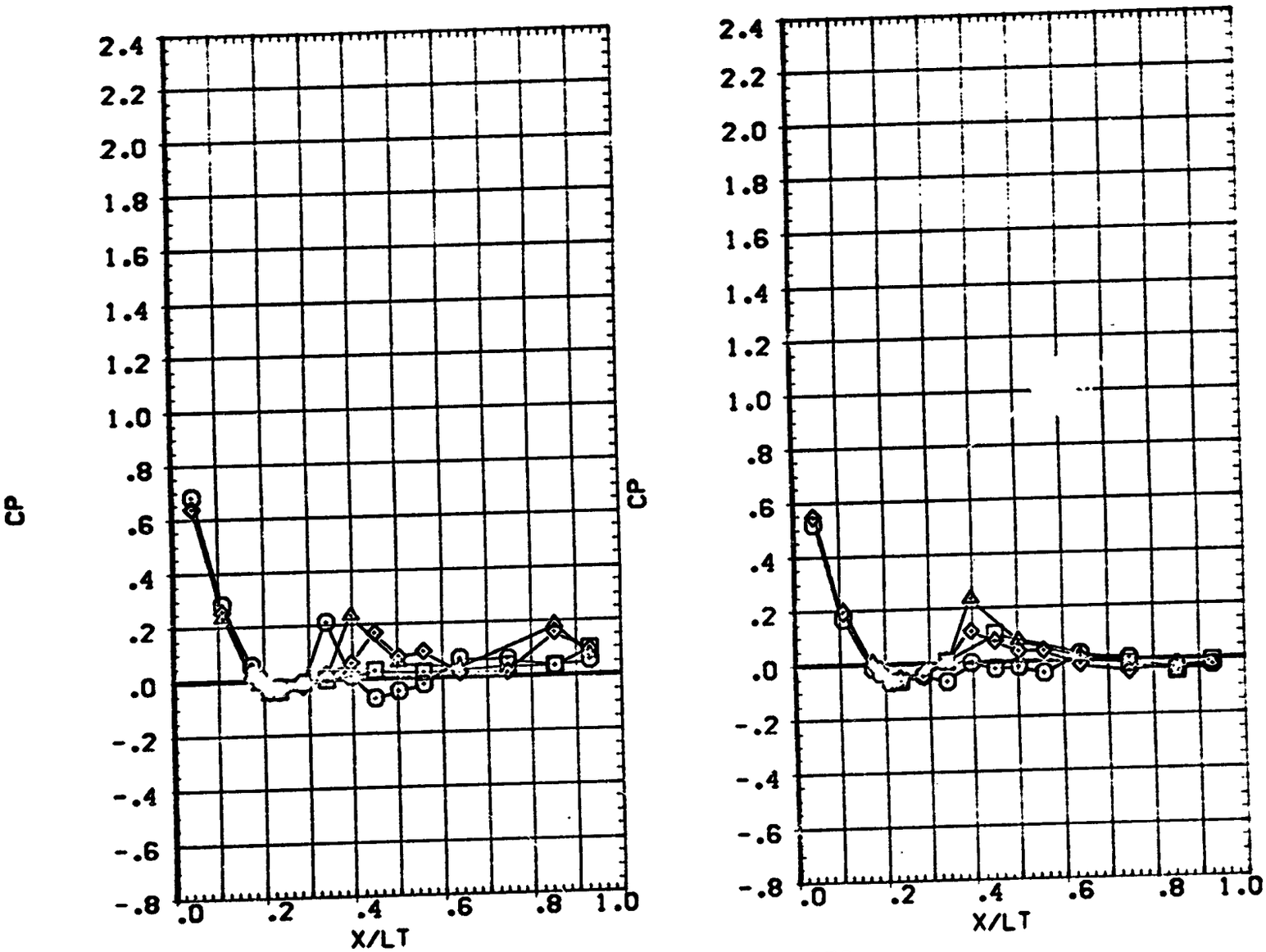
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 02A - S3 + T9 EXTERNAL TANK (RBNT06)

SYMBOL	PHI	BETAT	MACH
○	120.000	-4.270	2.999
□	135.000	2.210	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



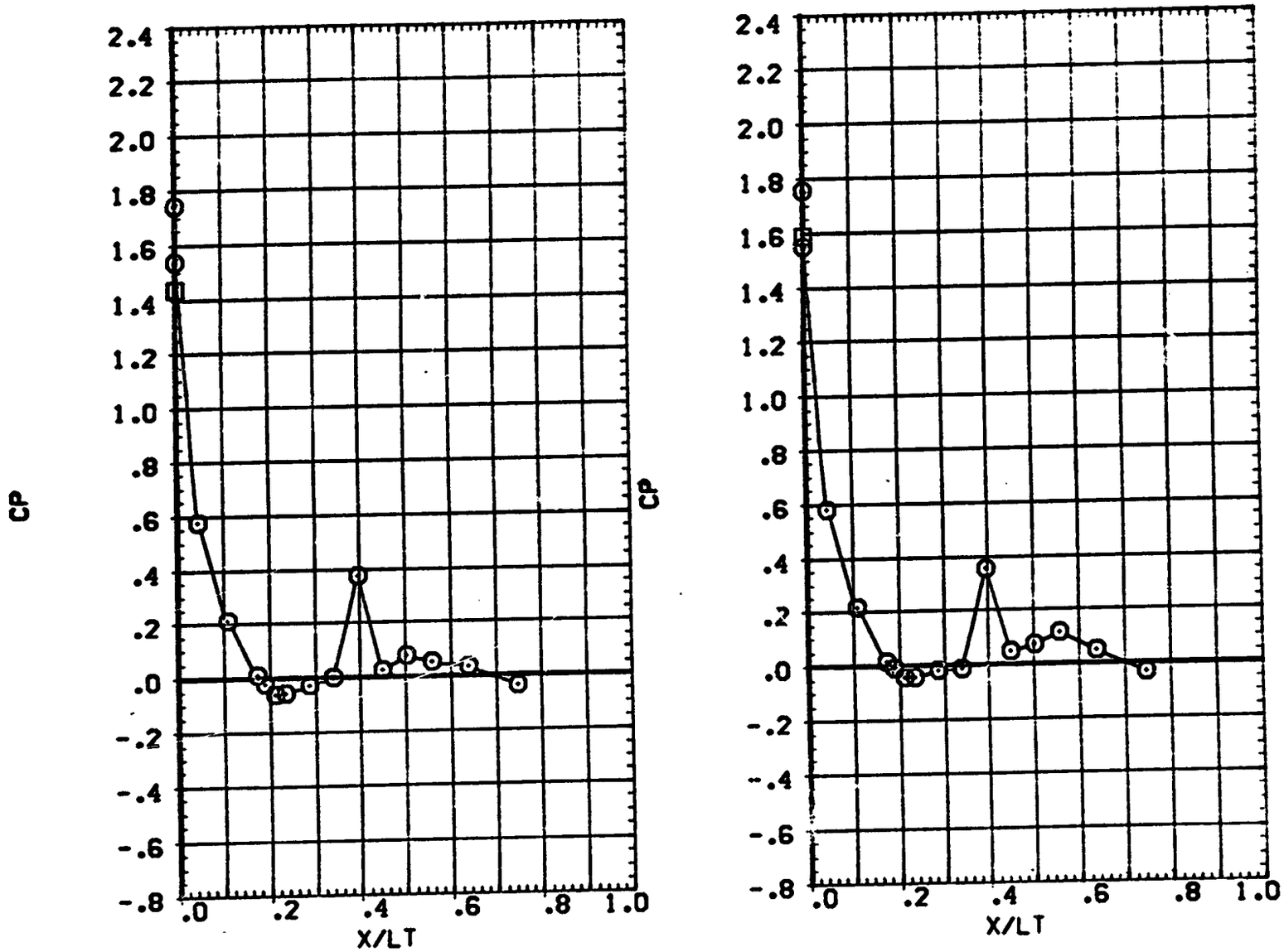
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 C2A - S3 + 79 EXTERNAL TANK (RBNTC6)

SYMBOL	PHI	BETAT	MACH
	180.000	-4.270	2.999
	770.000	2.710	

PARAMETRIC VALUES

ALPHAT	.000	DBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



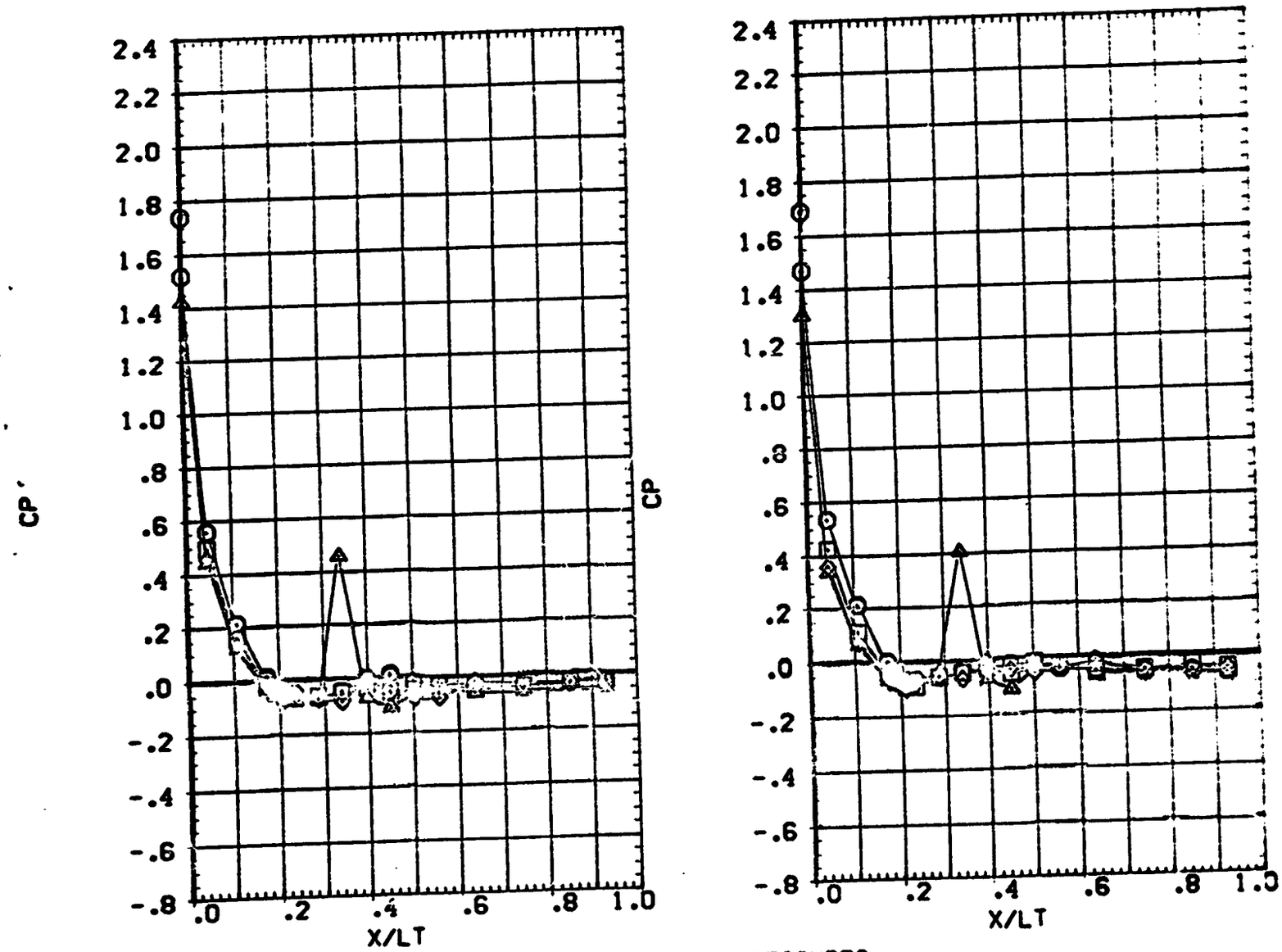
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 32A + S3 + T9 EXTERNAL TANK (RBNTC6)

SYMBOL	PHI	BETA	MACH
○	.000	4.370	2.999
◇	30.0000	8.690	
△	60.0000		
	90.0000		

PARAMETRIC VALUES

ALPHAT	.000	[illegible]	.500
RUDDER	.000	ELEVN	.0000
RUDFLR	.000		



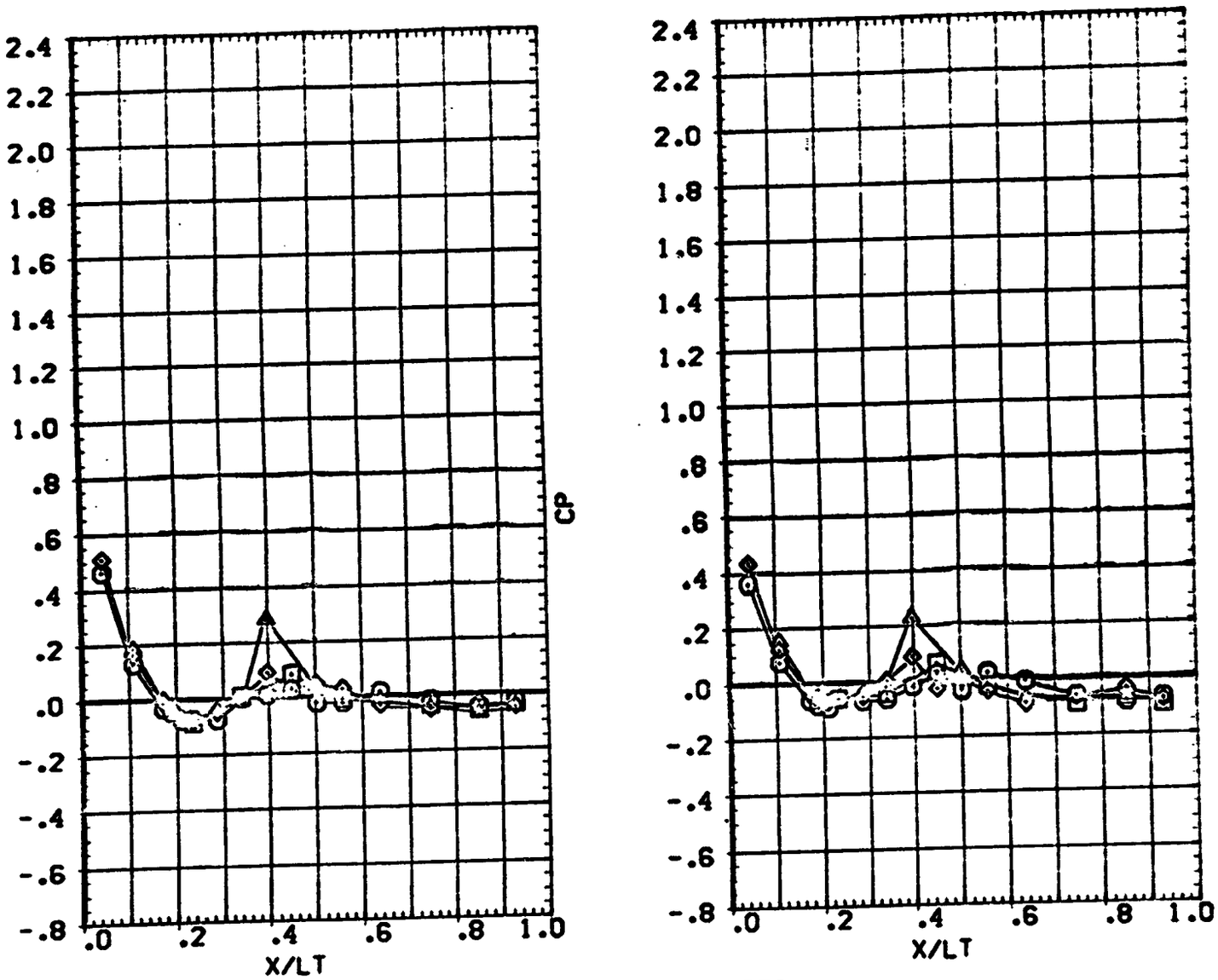
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBVTC6)

SYMBOL	PHI	BETAT	MACH
○	20.000	4.370	2.999
□	35.000	8.690	
◇	50.000		
△	65.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



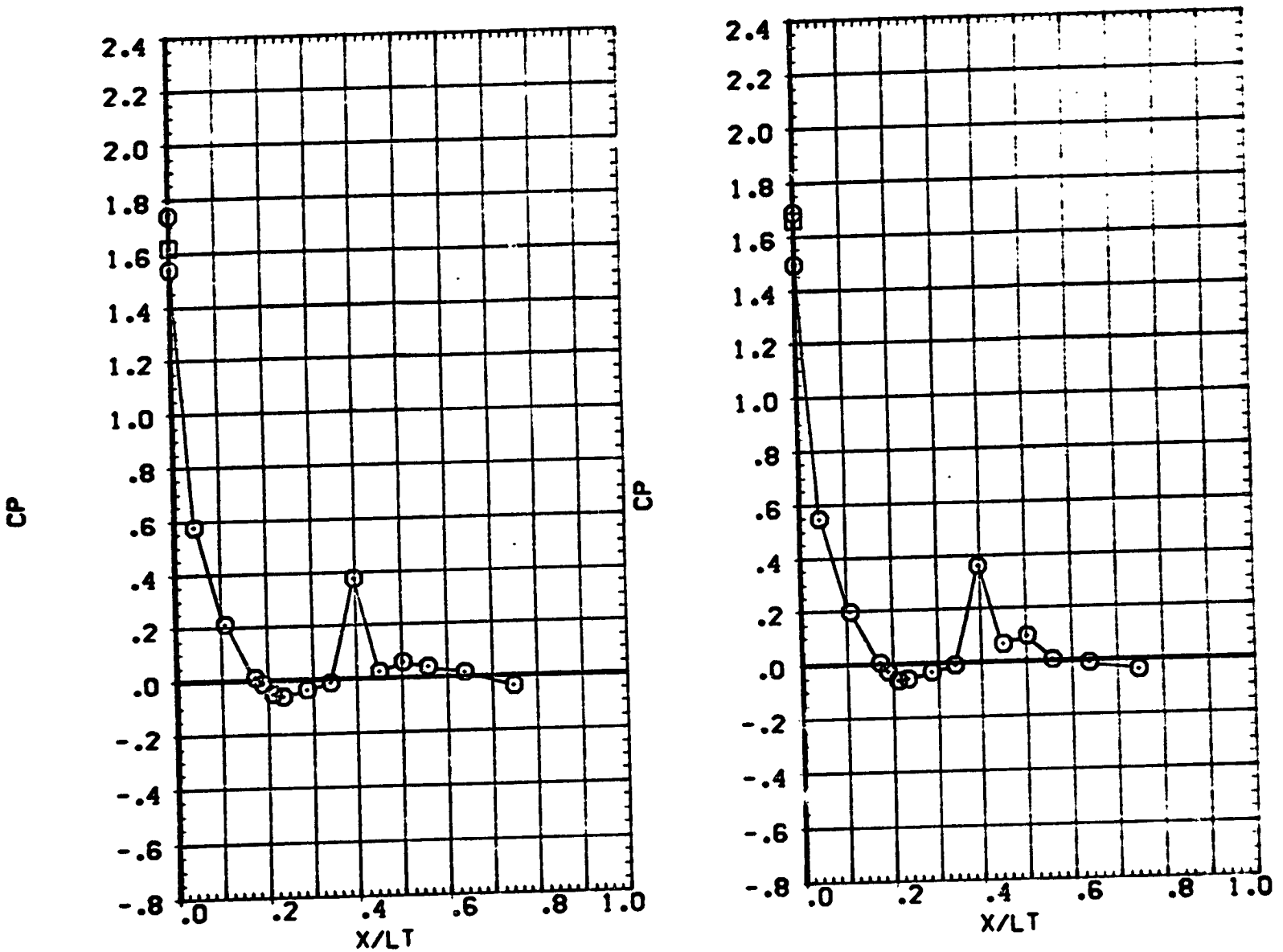
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBNTC6)

SYMBOL	PHI	BETAT	MACH
	180.000	4.370	2.999
	270.000	8.690	

PARAMETRIC VALUES

ALPHAT	.000	BODY	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



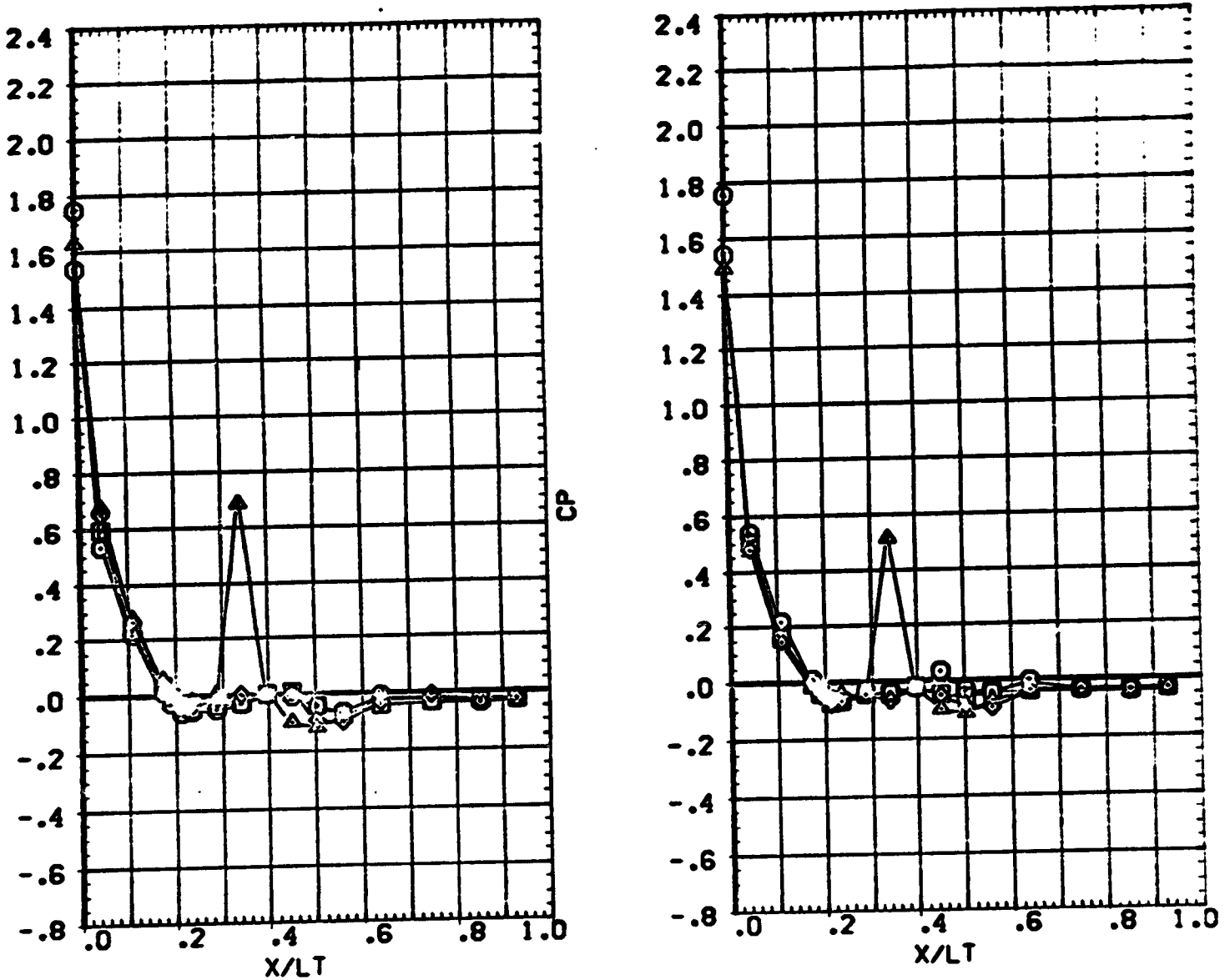
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 :A9 32A + S3 + T9 EXTERNAL TANK (RBNT06)

SYMBOL	PHI	BETA	MACH
	.0000	-4.340	3.502
◇	30.0000	2.760	
△	60.0000		
	90.0000		

PARAMETRIC VALUES

ALPHAT	.0000	SPOILR	.5000
RUDDER	.0000	ELEVON	.0000
RUDFLR	.0000		



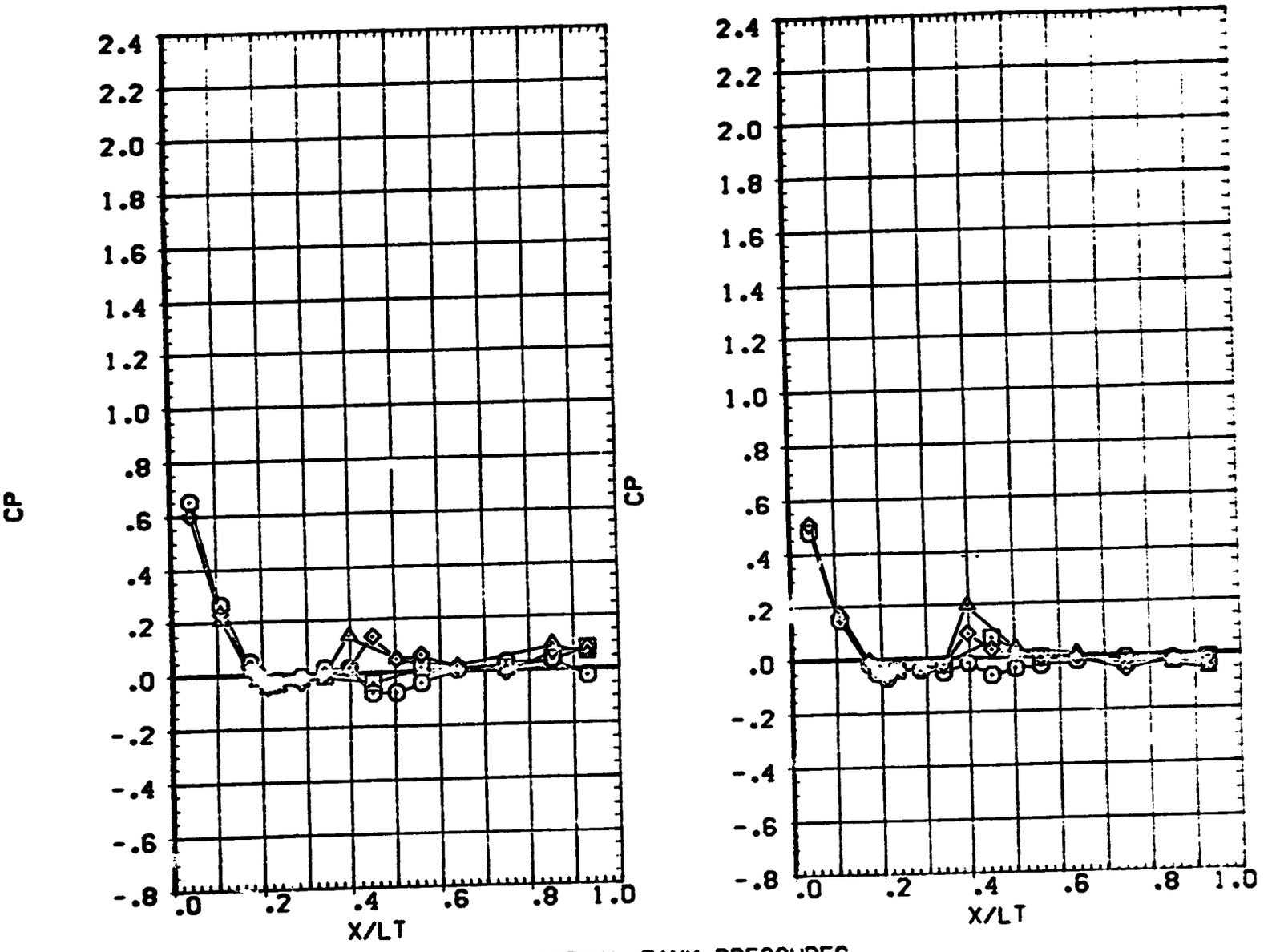
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 32A + S3 + T9 EXTERNAL TANK (RBNT06)

SYMBOL	PHI	BETA	MACH
○	20.000	-4.340	3.502
□	35.0000	2.760	
◇	50.0000		
△	65.0000		

PARAMETRIC VALUES

ALPHAT	.000	DBLNC	.500
RUDDER	.0000	ELEVN	.0000
RUDFLR	.000		



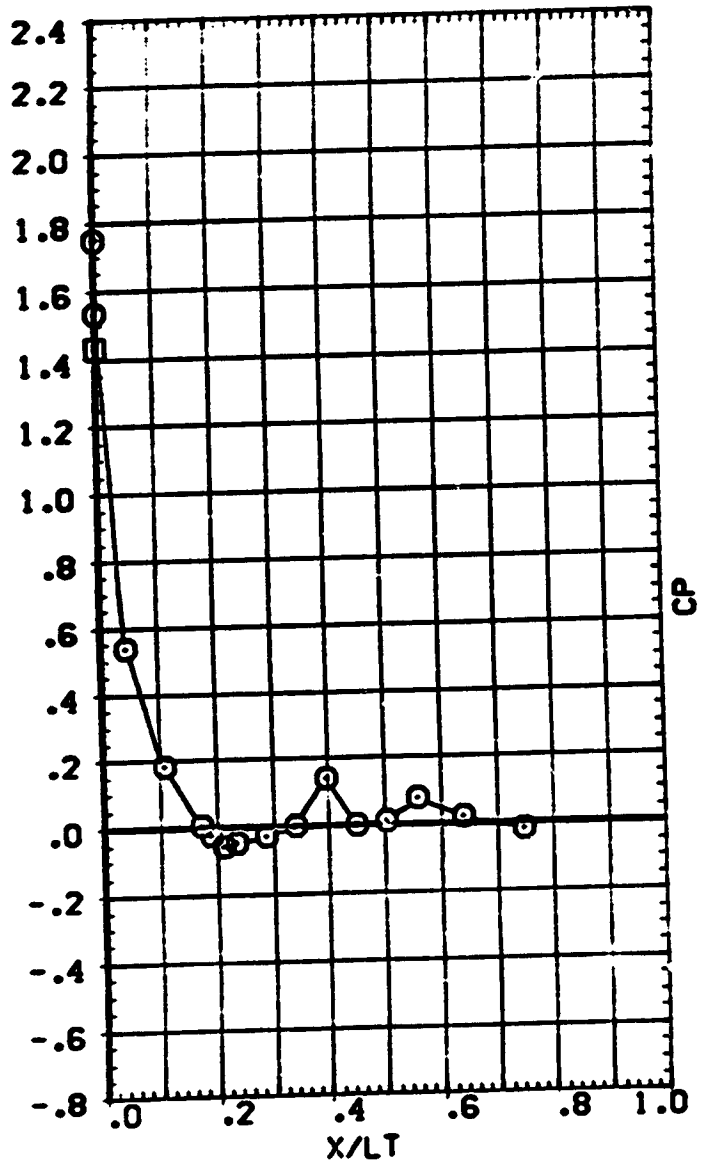
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

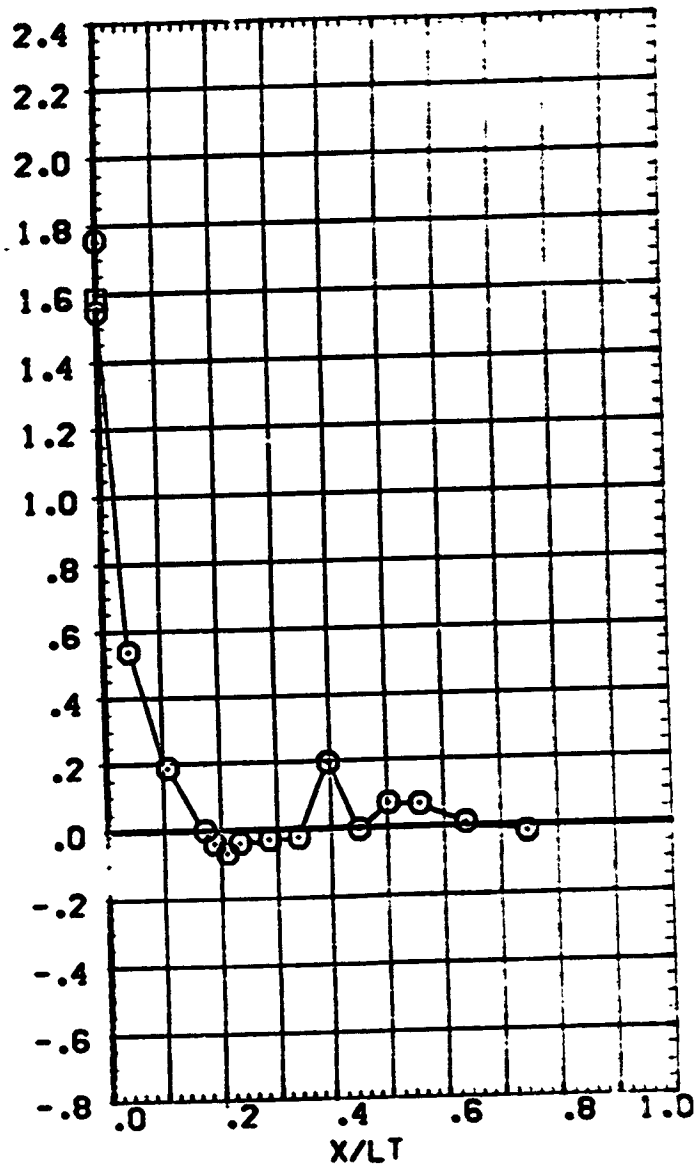
AVES 87-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNTC6)

SYMBOL	PHI	BETAT	MACH
(1C)	180.0000	-4.340	3.502
	270.0000	2.260	

PARAMETRIC VALUES

ALPHAT	.0000	DBYNC	.5000
RUDDER	.0000	ELEVON	.0000
RUDFLR	.0000		





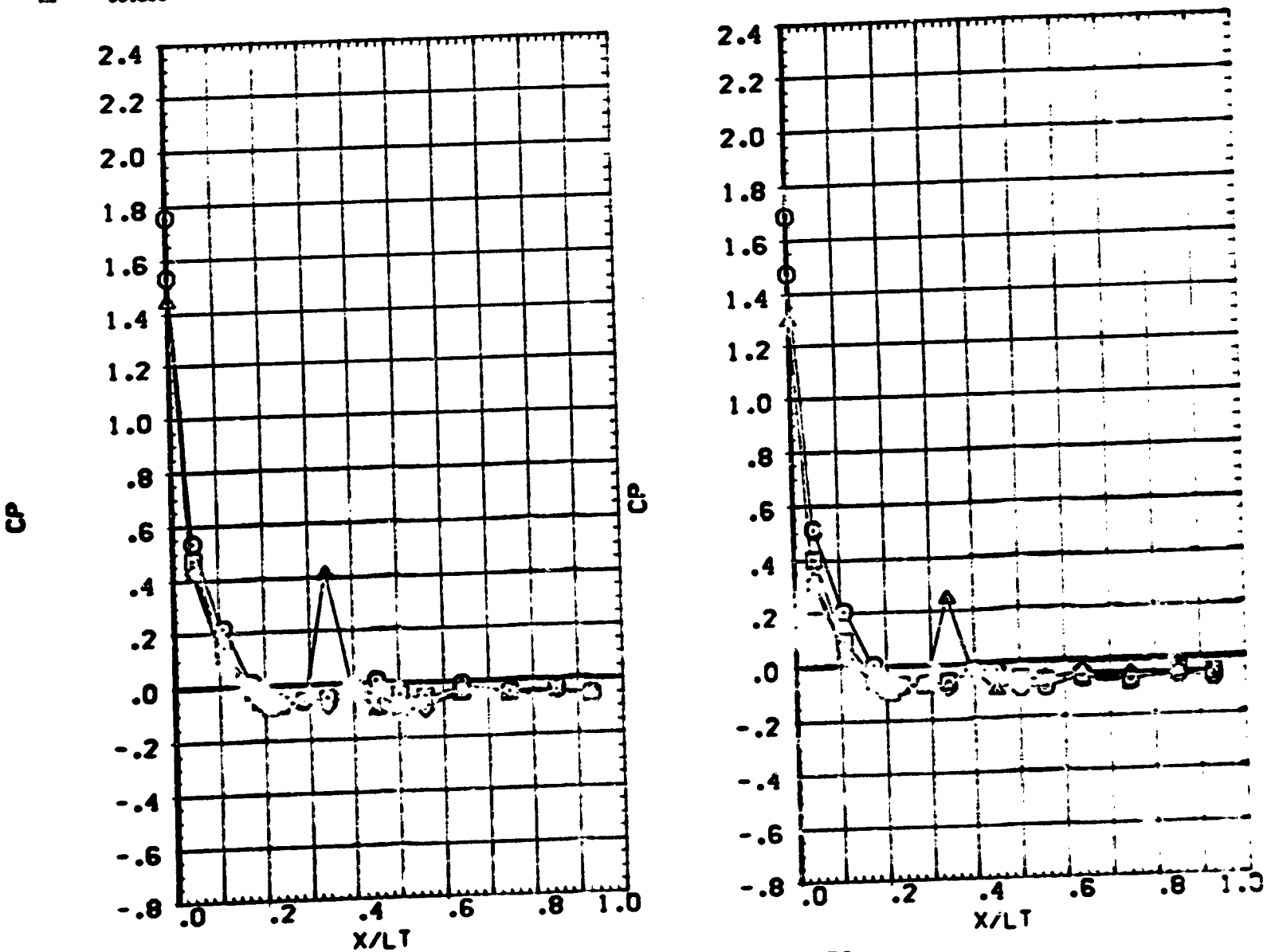
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A8 C2A - S3 - T8 EXTERNAL TANK (RBNTC6)

SYMBOL	PHI	BETA	MACH
○	.0000	4.450	3.502
◇	30.0000	8.850	
△	60.0000		
	90.0000		

PARAMETRIC VALUES

ALPHAT	.0000	SPOILER	.0000
RUDDER	.0000	ELEVON	.0000
RUDFLR	.0000		



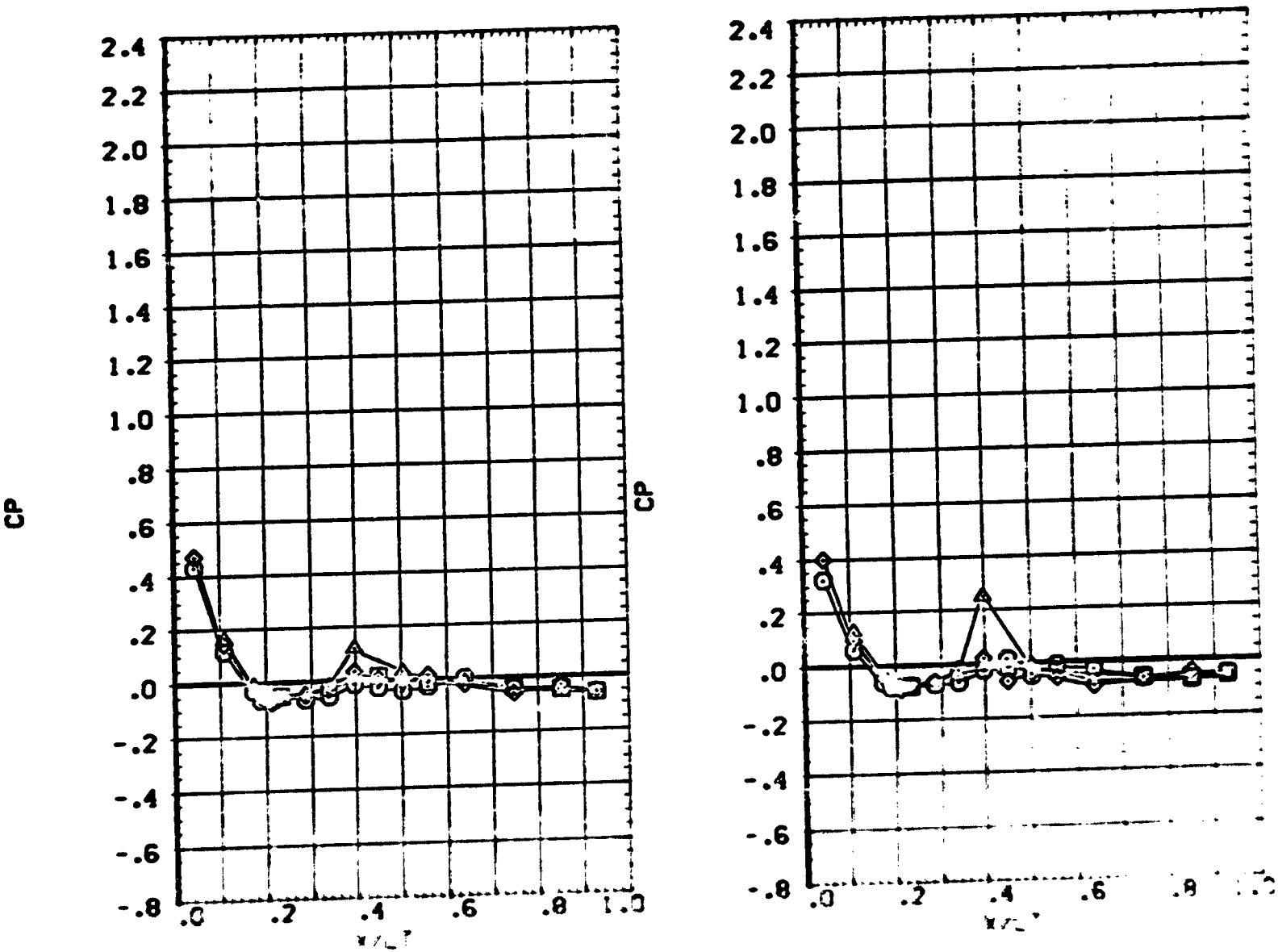
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 :AS C2A - S3 - T9 EXTERNAL TANK (RBVTC6)

SYMBOL	ALT	BETA	MACH
	20.000	4.450	3.500
	35.000	8.850	
	50.000		
	65.000		

PARAMETRIC VALUES

ALPHA	.000	[illegible]	.500
RUDDER	.000	ELEVN	.000
AILERON	.000		



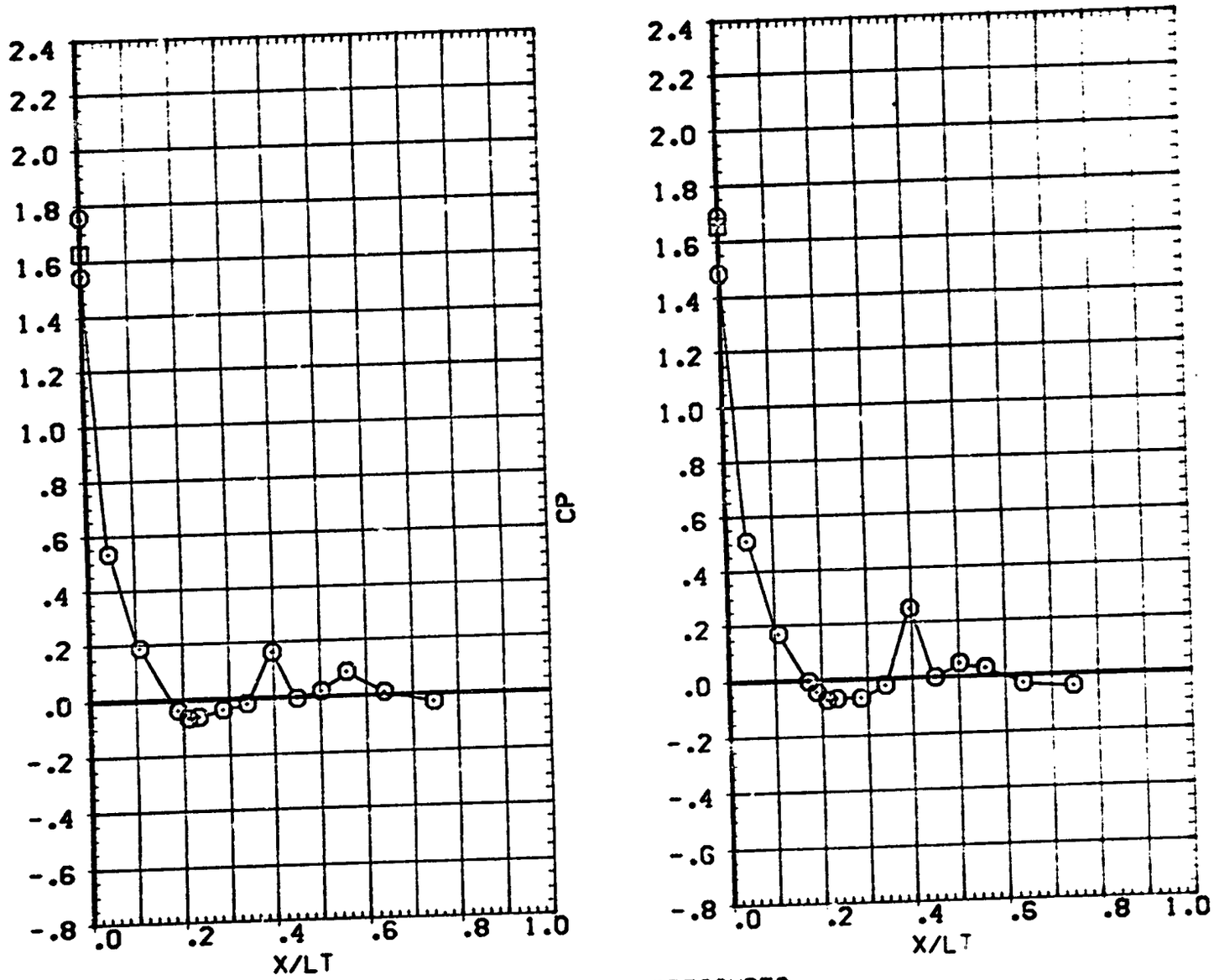
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 :A9 C2A + S3 + '9 EXTERNAL TANK (RBNTC6)

SYMBOL	PHI	BETA	MACH
○	180.000	4.450	3.502
□	270.000	8.850	

PARAMETRIC VALUES

ALPHAT	.000	SPOILR	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



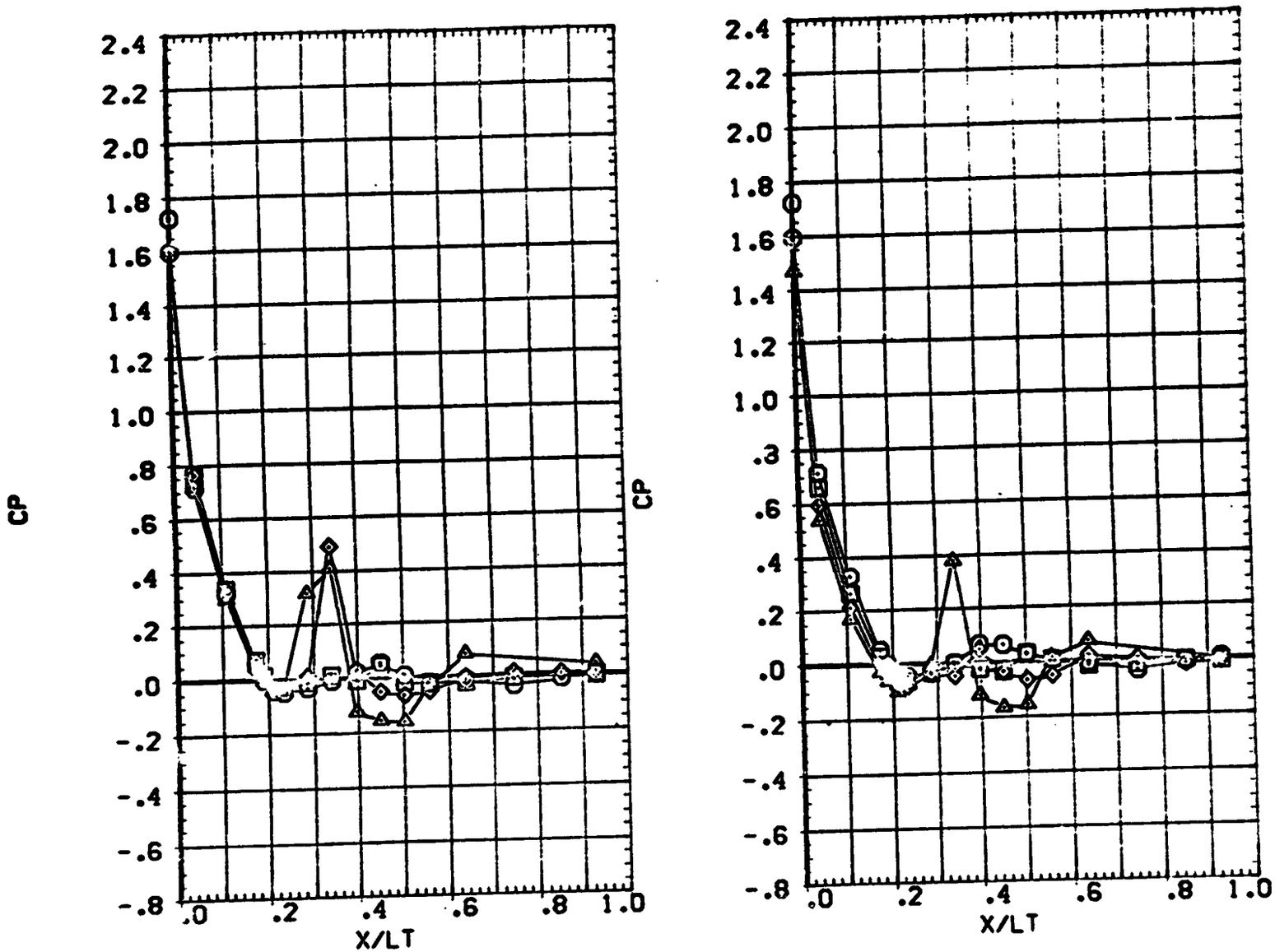
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 :A9 02A - S3 - T9 EXTERNAL TANK (RBNT08)

SYMBOL	PHI	BETAT	MACH
	.000	-4.190	2.498
	30.000	2.170	
	60.000		
	90.000		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROLLR	.000		



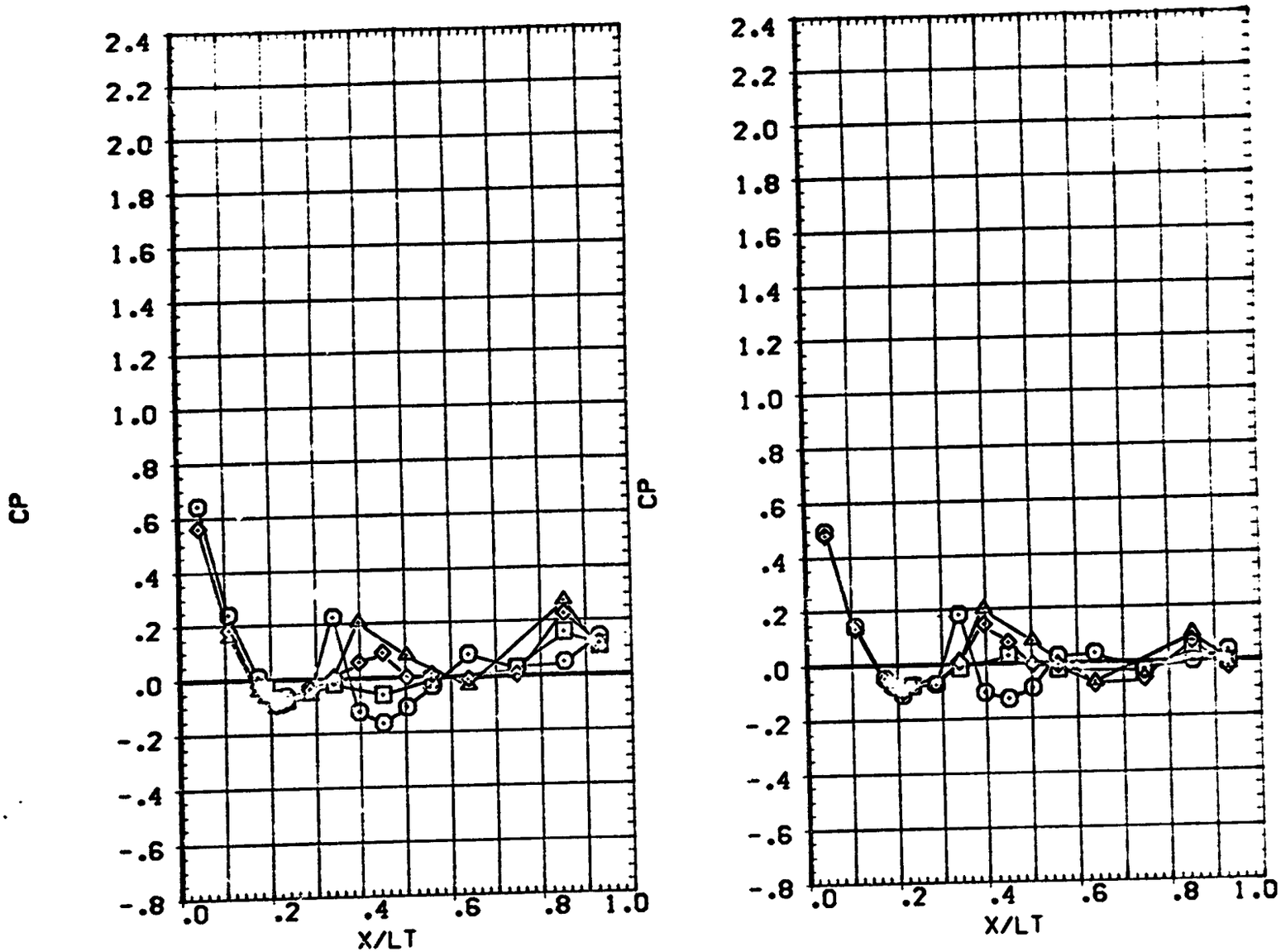
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-70? :A9 C2A + S3 + T9 EXTERNAL TANK (RBNTC8)

SYMBOL	PHI	BETA	MACH
○	:70.000	-4.190	2.498
◇	:35.000	2.170	
△	:50.000		
	:65.000		

PARAMETRIC VALUES

ALPHAT	4.000	SPB:NC	.500
RUDDER	.000	ELEVN	.000
RUDFLR	.000		



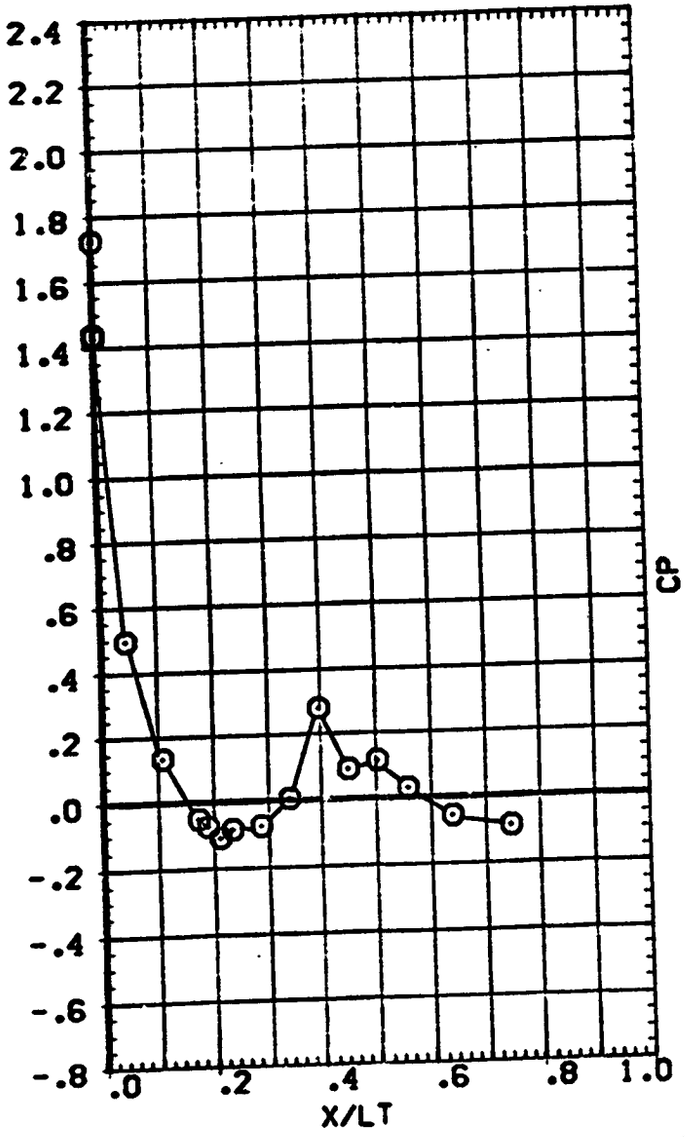
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

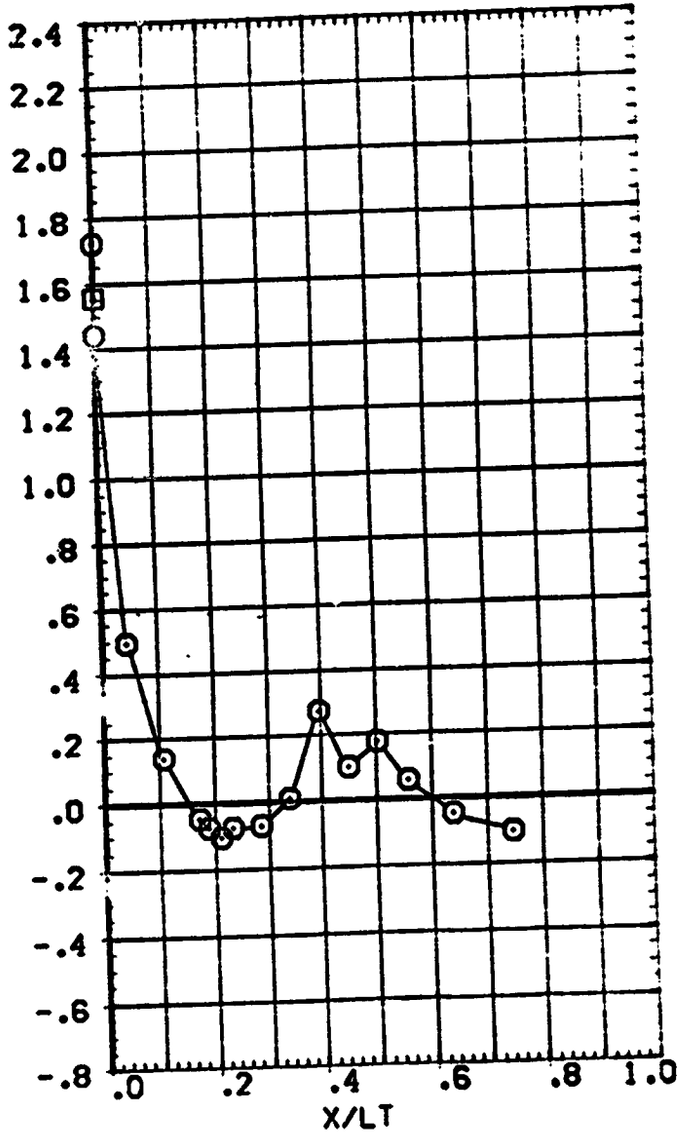
AMES 87-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNTC8)

SYMBOL	PHI	BETA	MACH
○	180.000	-4.190	2.498
□	270.000	2.170	

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		





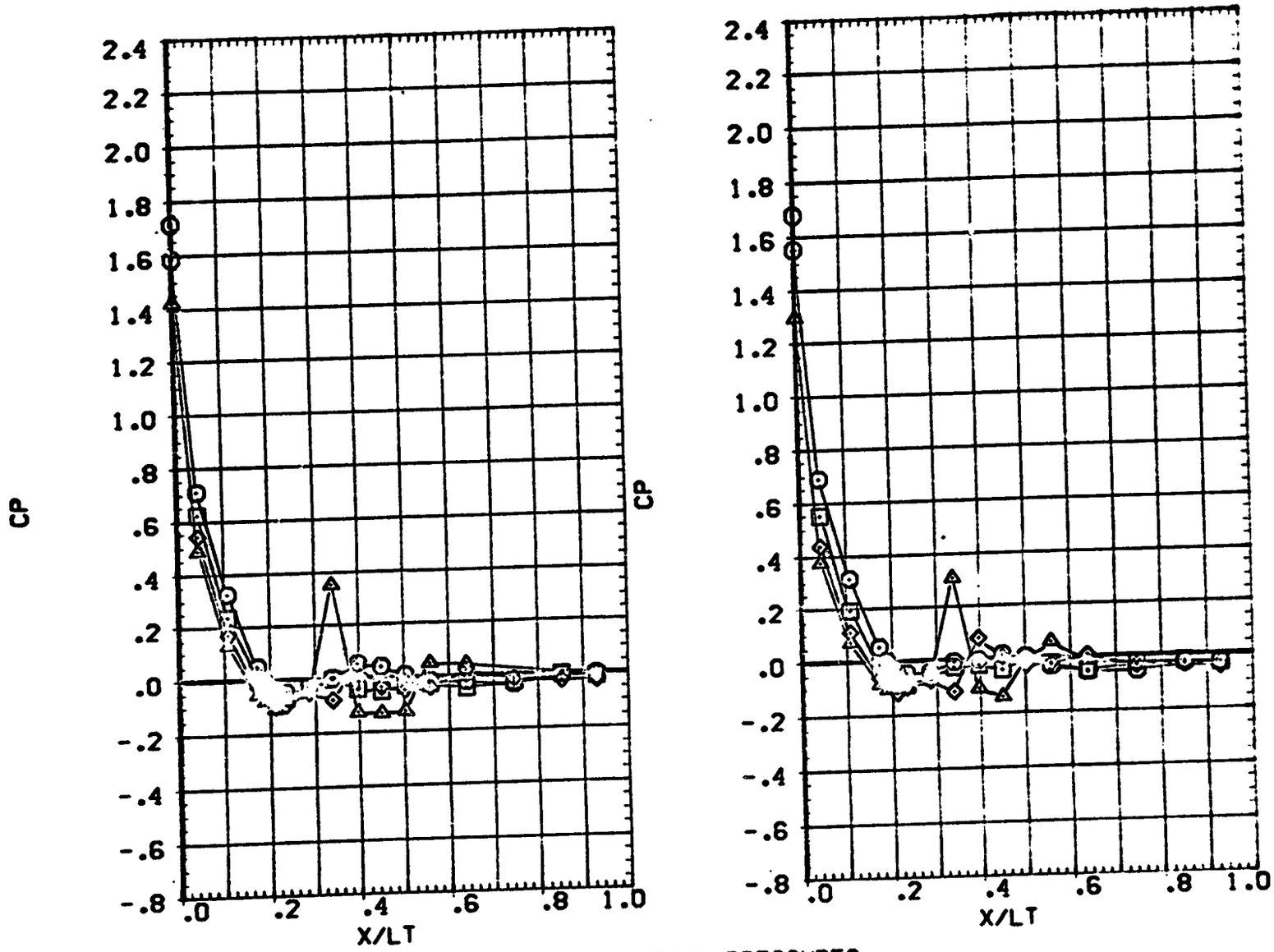
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 C2A - S3 - T9 EXTERNAL TANK (RBNT08)

SYMBOL	PHI	BETAT	MACH
○	.000	4.300	2.498
□	30.000	8.550	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	4.000	ORBING	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



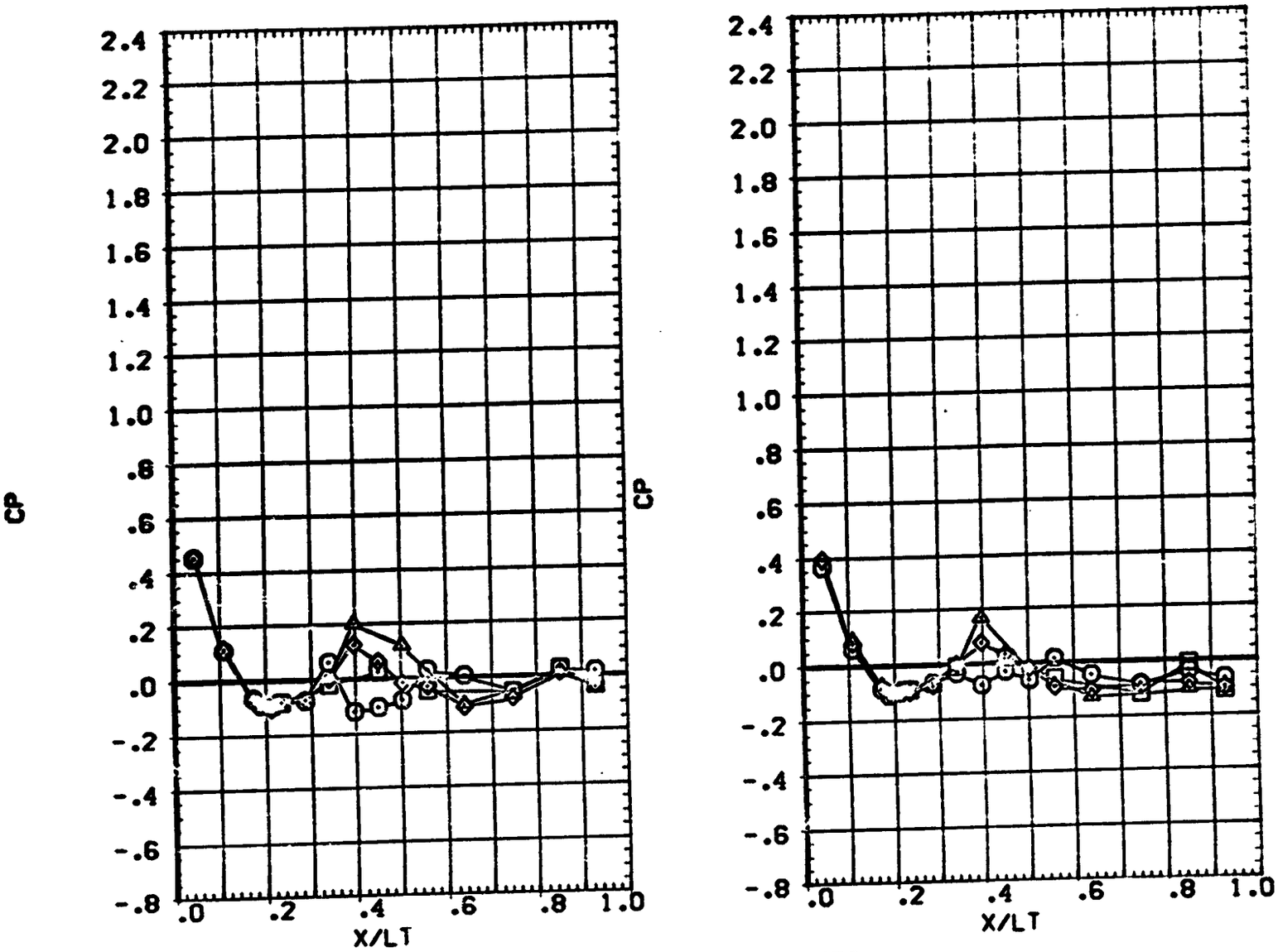
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBVT08)

SYMBOL	PHI	BETAT	MACH
	120.000	4.300	2.498
	135.000	8.550	
	150.000		
	165.000		

PARAMETRIC VALUES

ALPHAT	4.000	DFBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



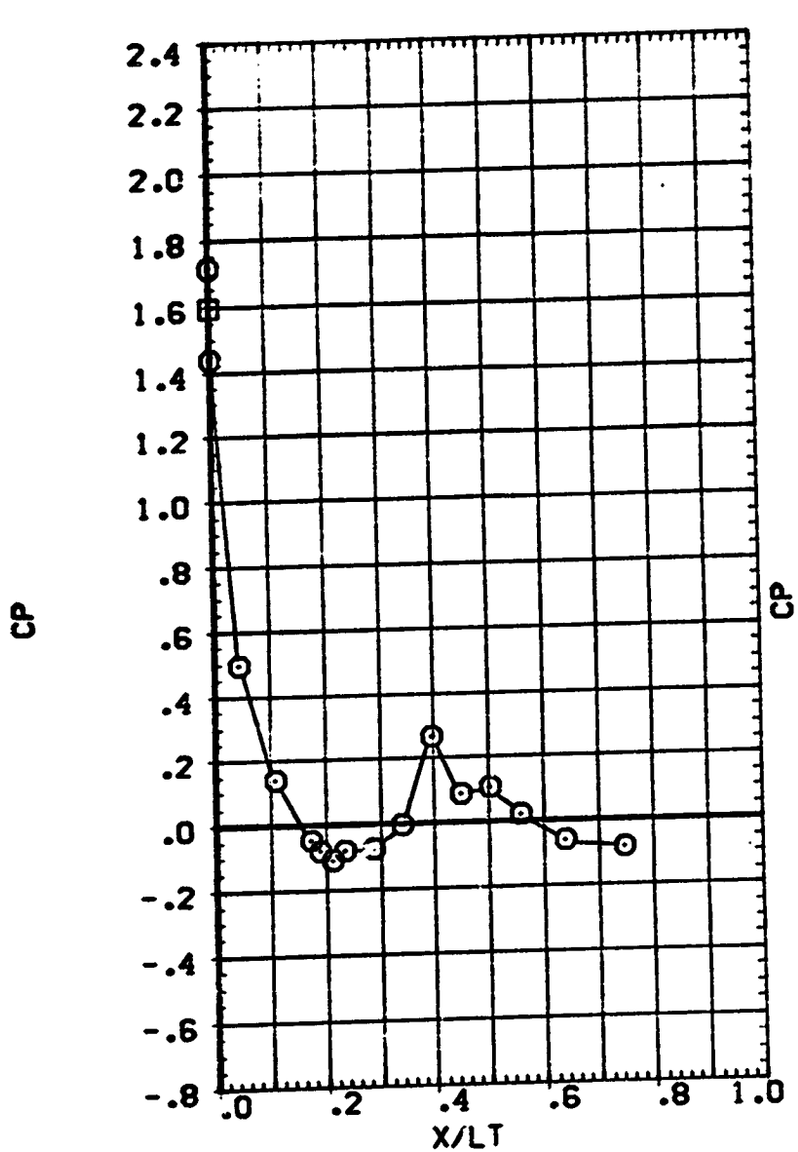
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

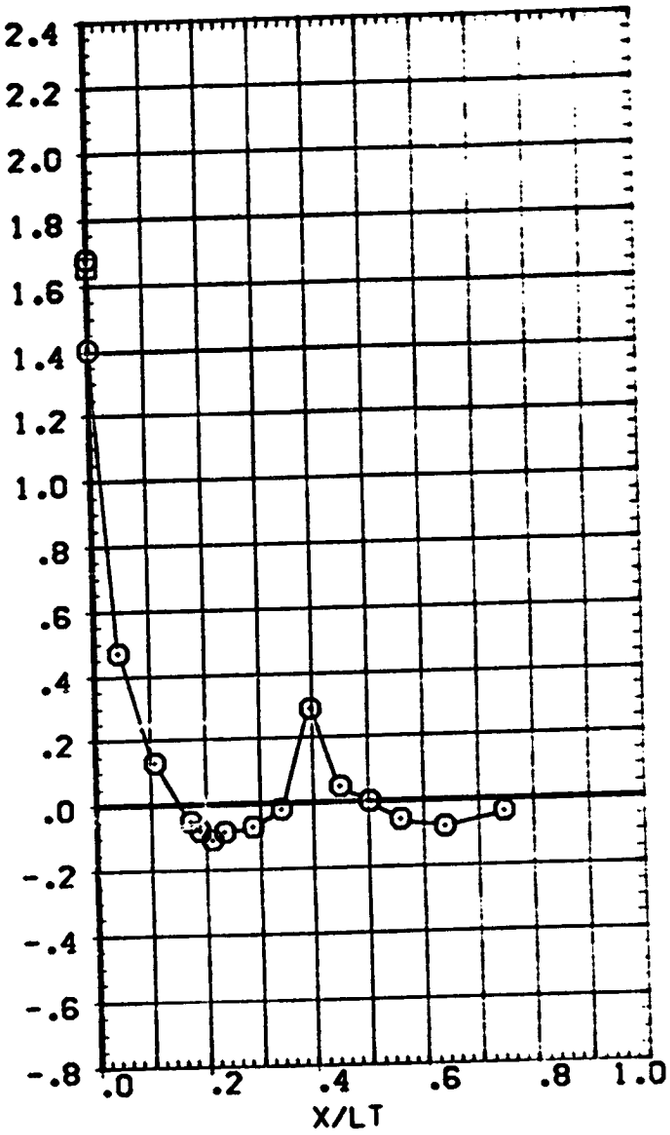
AMES 87-707 :A9 32A + S3 + T9 EXTERNAL TANK (RBNT08)

SYMBOL	PH:	BETA	MACH
○	180.000	4.300	2.498
□	270.000	8.550	

PARAMETRIC VALUES

ALPHAT	4.000	SREV	.500
RUDDER	.000	ELEVN	.000
RUDFLR	.000		





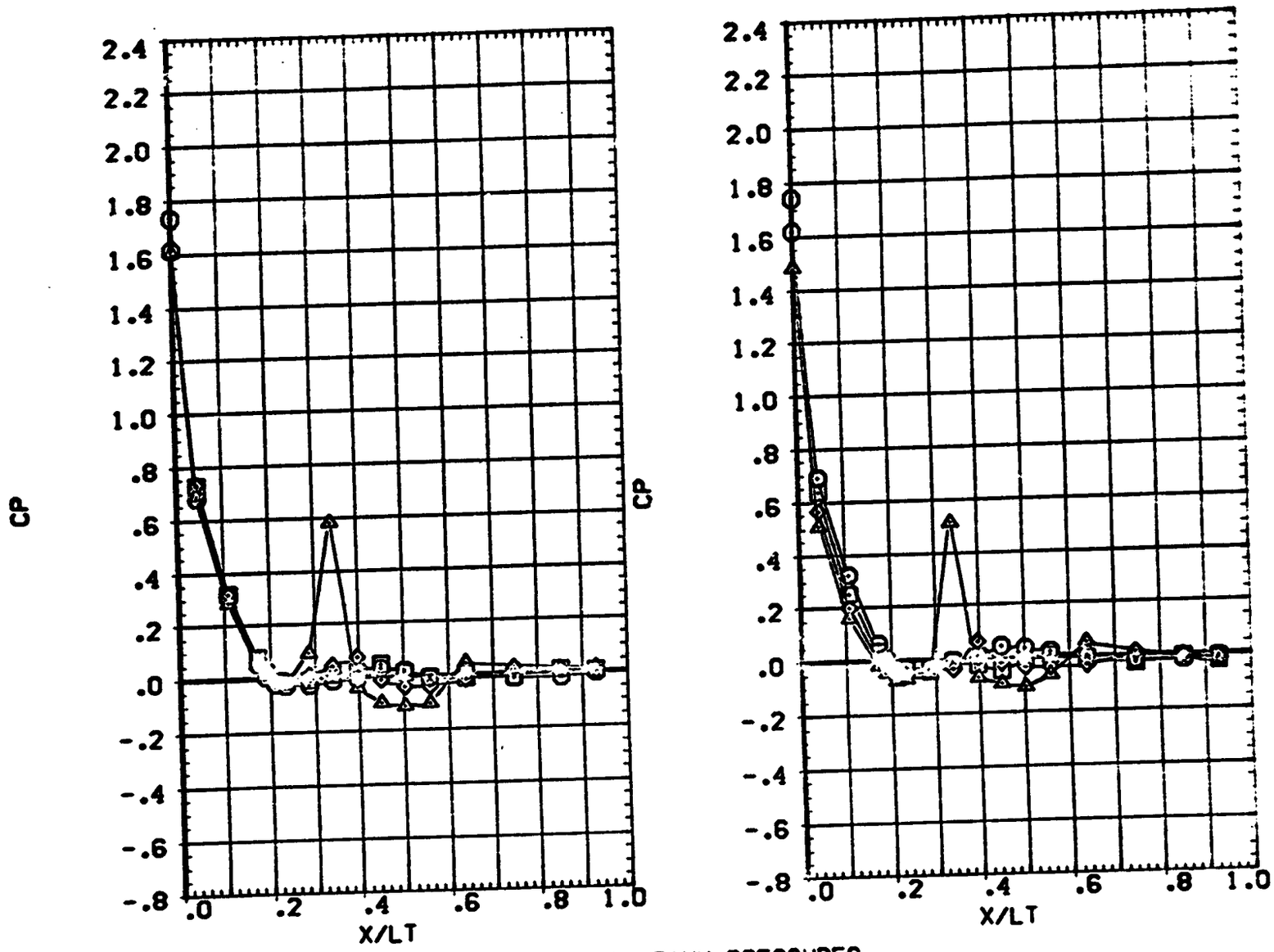
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBNT08)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.260	2.999
◇	30.000	2.210	
△	60.000		
	90.000		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



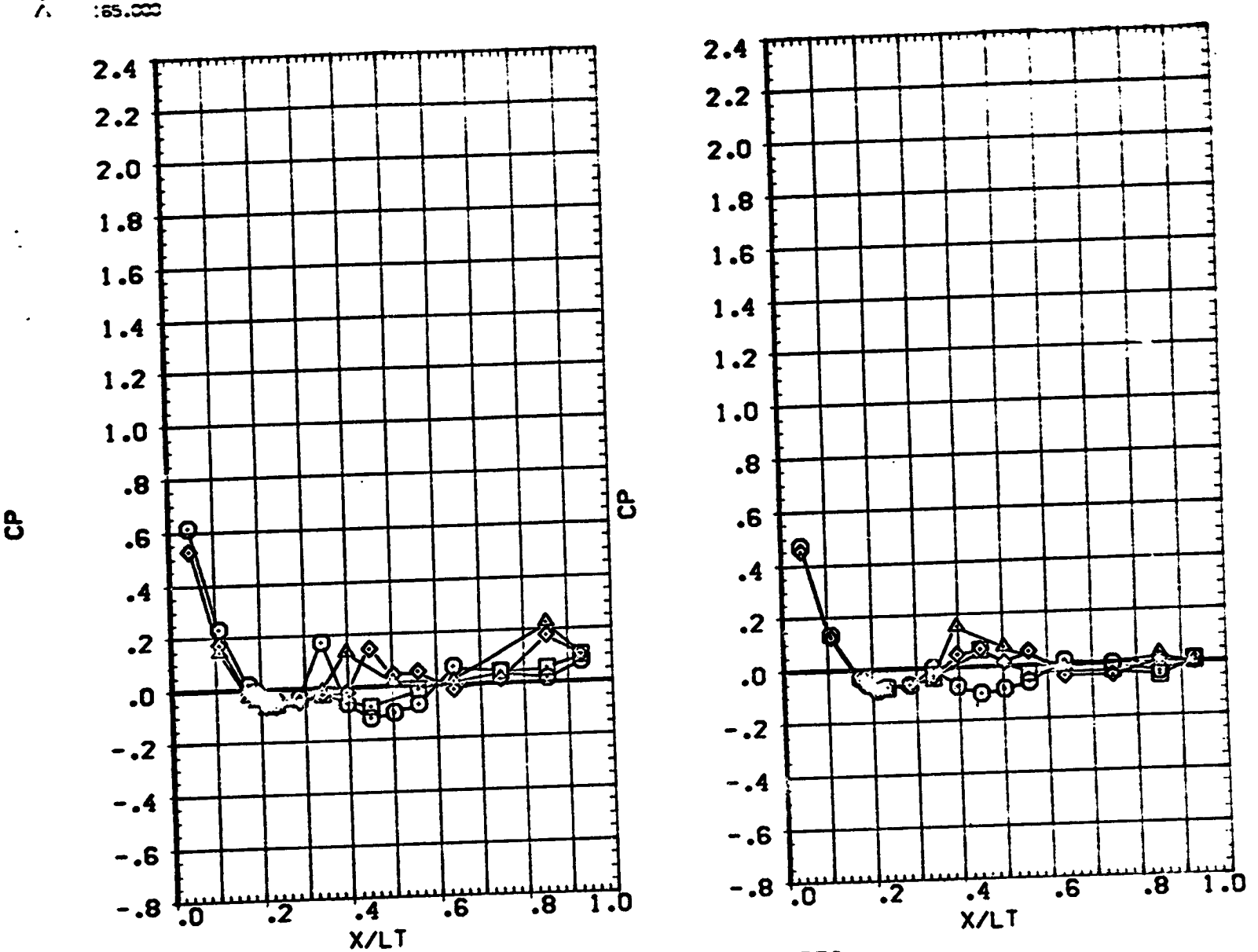
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 :A9 C2A - S3 - '9 EXTERNAL TANK (RBNTCB)

SYMBOL	PHI	BETA	MACH
○	:20.000	-4.760	7.999
□	:35.000	2.210	
◇	:50.000		
△	:65.000		

PARAMETRIC VALUES

ALPHAT	4.000	SPOILR	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



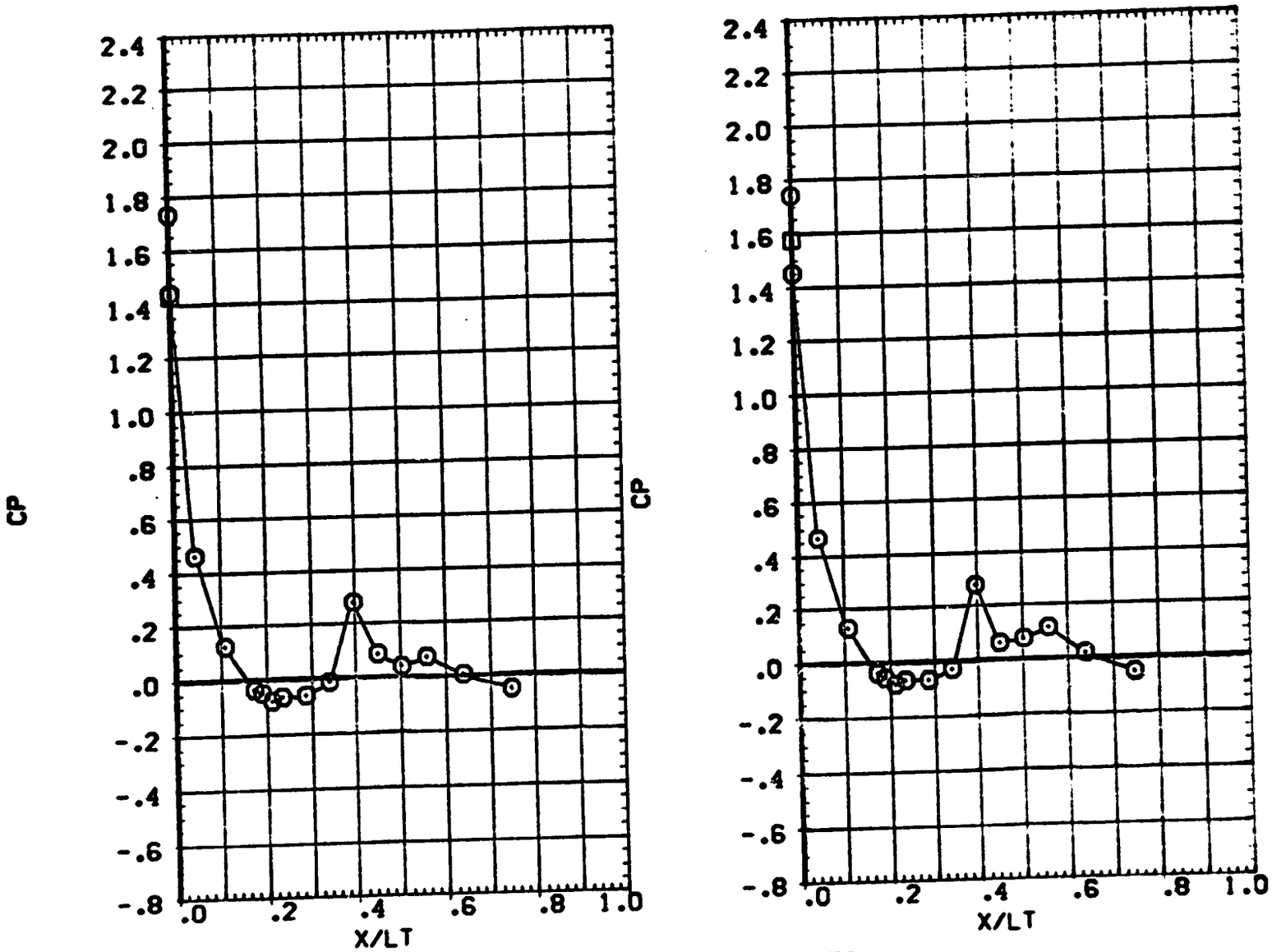
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 :A9 32A + S3 + '9 EXTERNAL TANK (RBNT08)

SYMBOL	PHI	BETA	MACH
○	180.000	-4.260	2.999
□	270.000	2.210	

PARAMETRIC VALUES

ALPHA	4.000	DBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



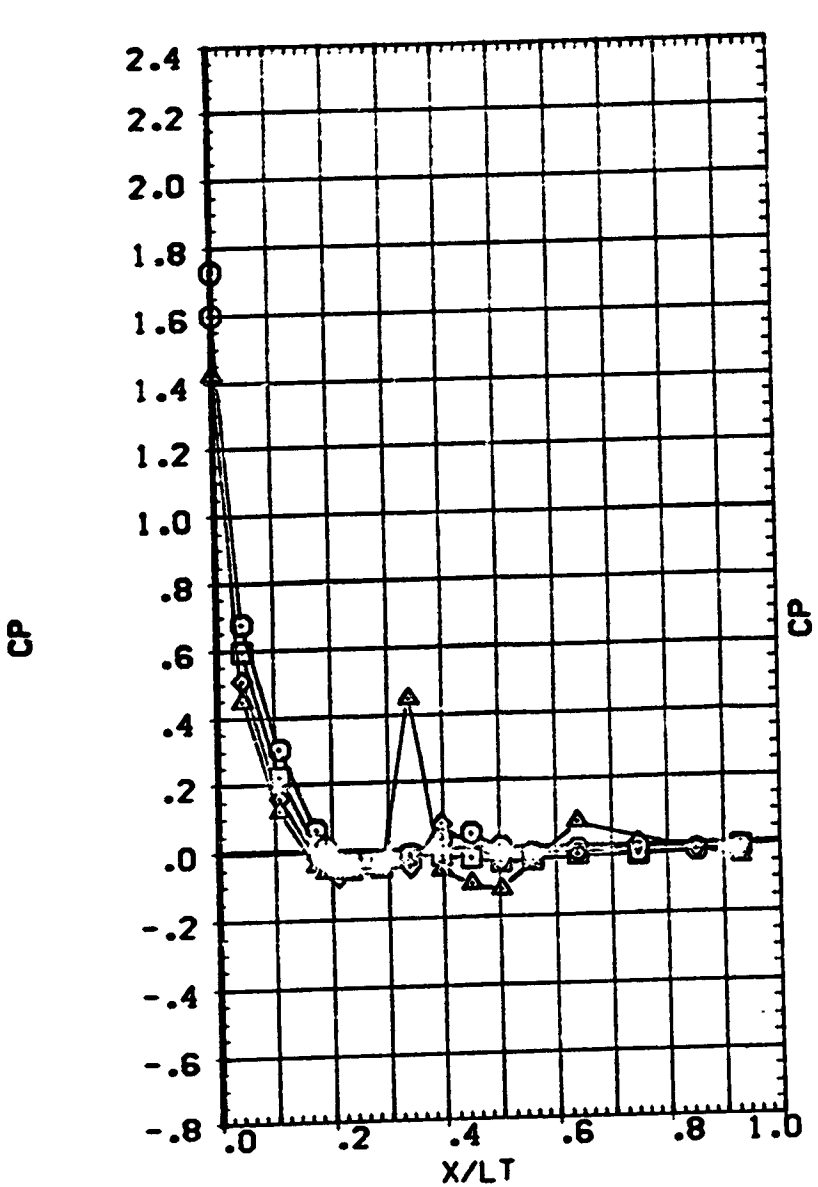
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

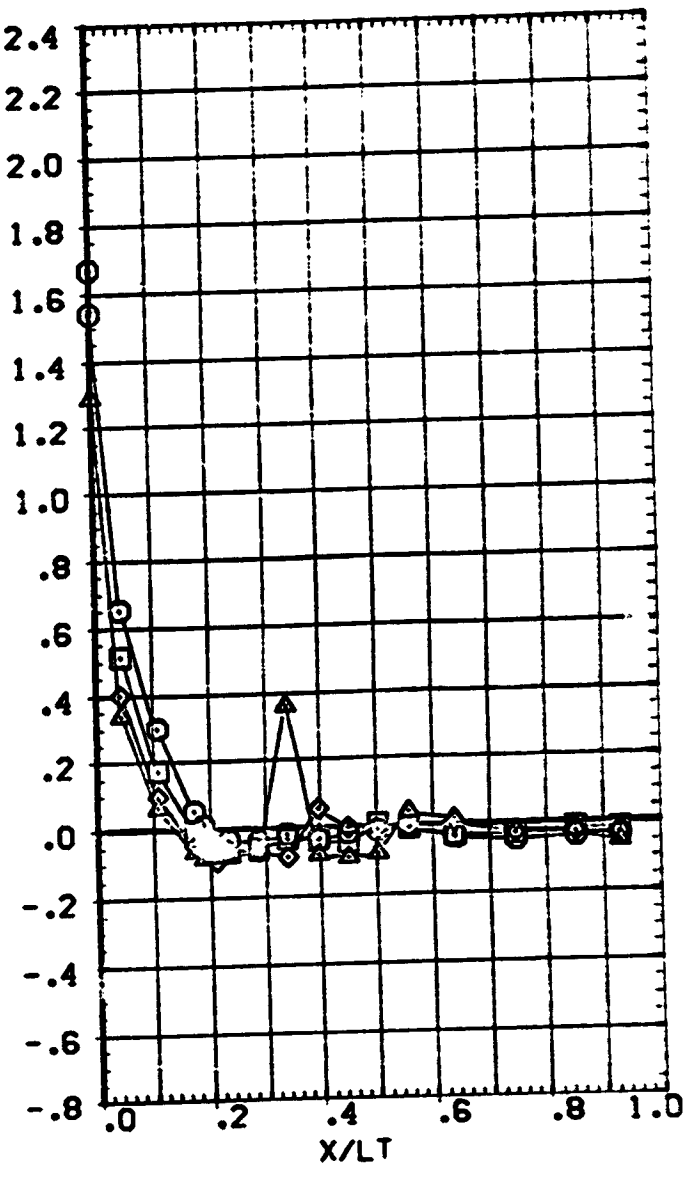
AVES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBNTC8)

SYMBOL	PHI	BETA	MACH
○	.000	4.370	2.999
□	30.000	8.700	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHA	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROLLR	.000		





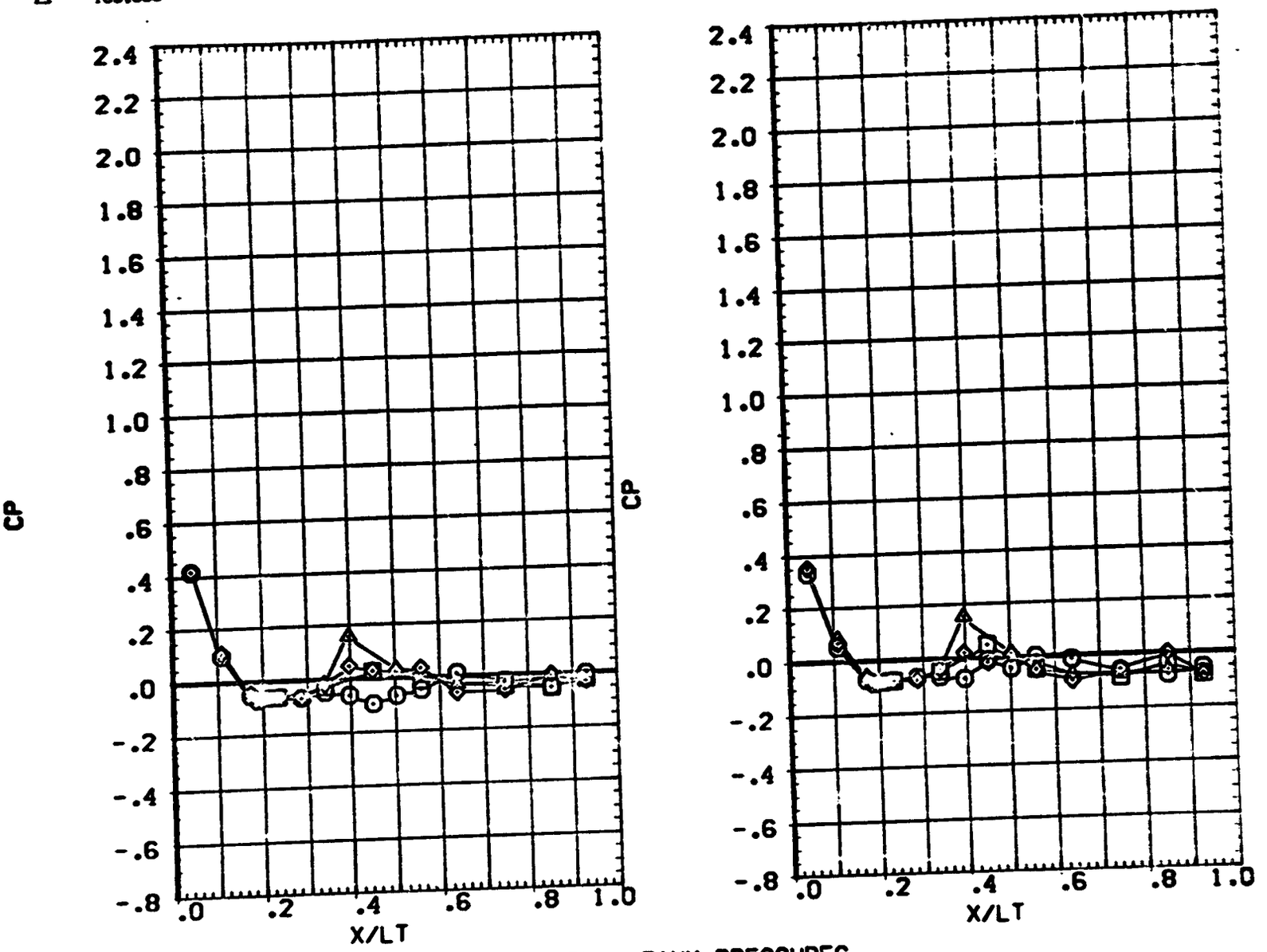
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBVTC8)

SYMBOL	PHI	BETAT	MACH
○	120.000	4.370	2.999
□	135.000	8.700	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



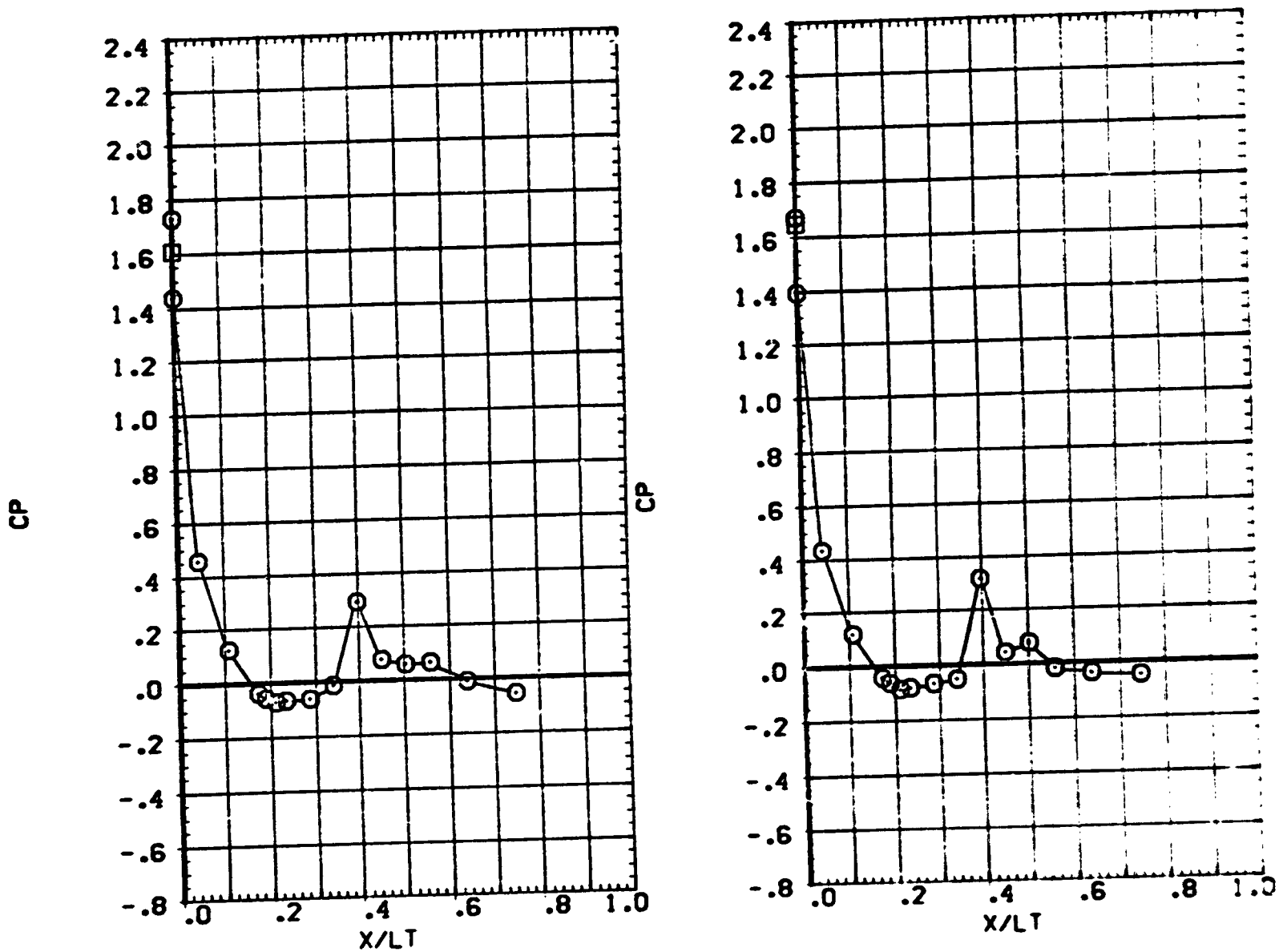
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNTC8)

SYMBOL	PHI	BETAT	MACH
○	180.000	4.370	2.999
□	270.000	9.700	

PARAMETRIC VALUES

ALPHAT	4.000	DELTAC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



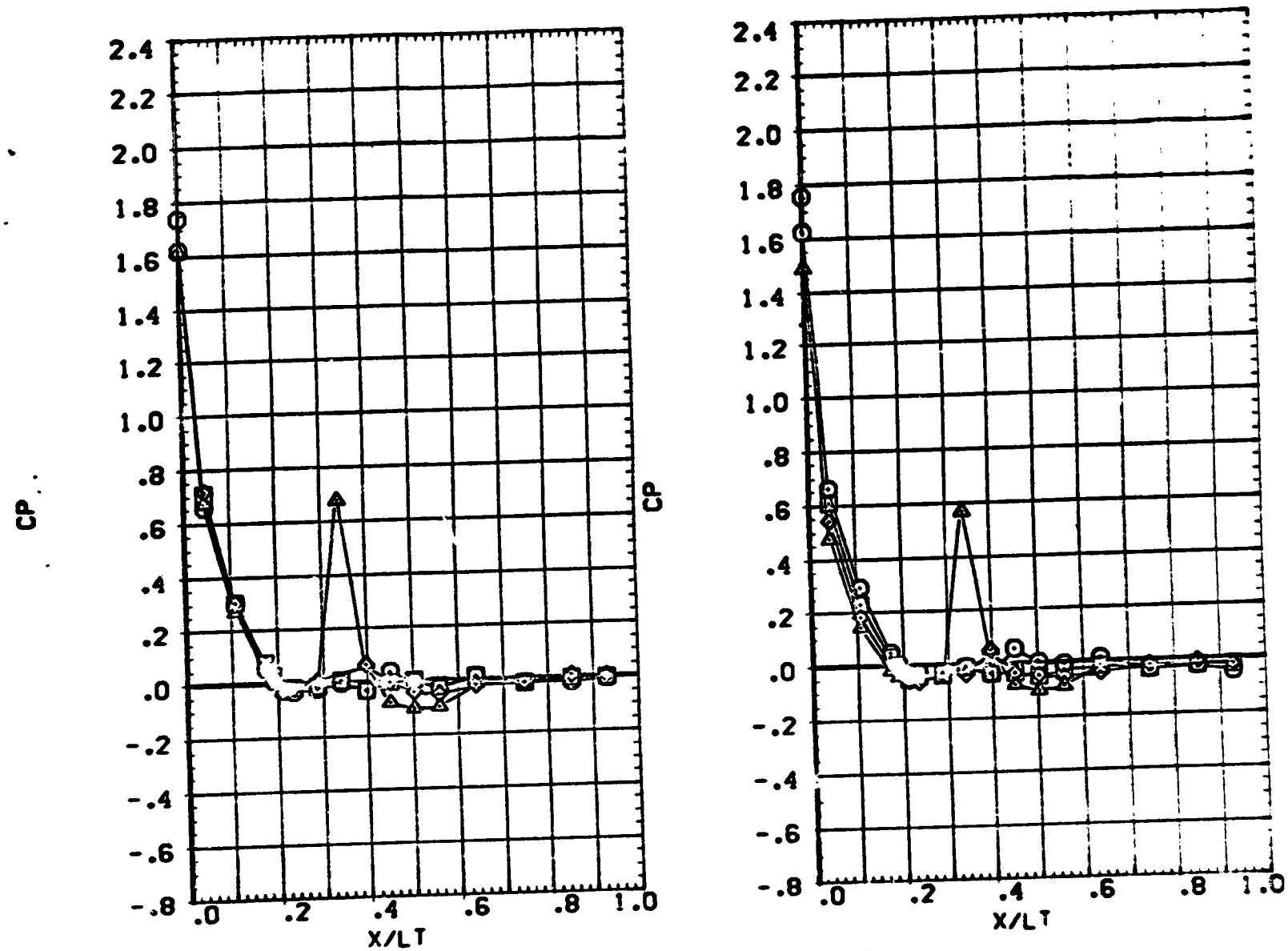
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 32A + S3 + T9 EXTERNAL TANK (RBNTC8)

SYMBOL	PHI	BETAT	MACH
○	.0000	-4.330	3.502
□	30.0000	2.260	
◇	60.0000		
△	90.0000		

PARAMETRIC VALUES

ALPHAT	4.0000	[illegible]	[illegible]
RUDDER	.0000	[illegible]	[illegible]
RUDFLR	.0000		



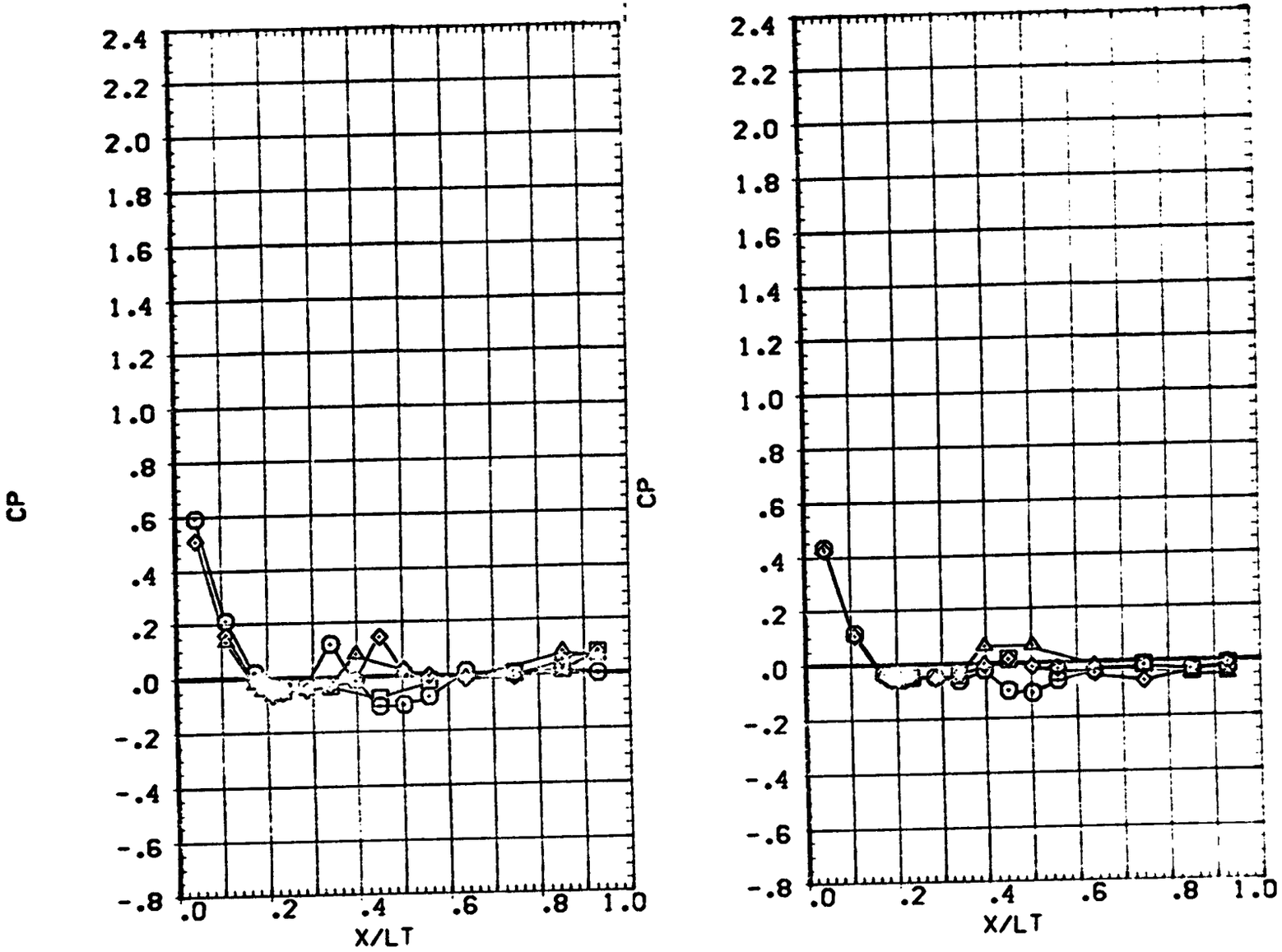
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 :A9 02A + S3 + '9 EXTERNAL TANK (RBNTC8)

SYMBOL	PHI	BETA	MACH
○	:20.000	-4.330	3.502
□	:30.000	2.760	
◇	:50.000		
△	:65.000		

PARAMETRIC VALUES

ALPHAT	4.000	[illegible]	.900
RUDDER	.000	ELEVON	.000
ROLLR	.000		



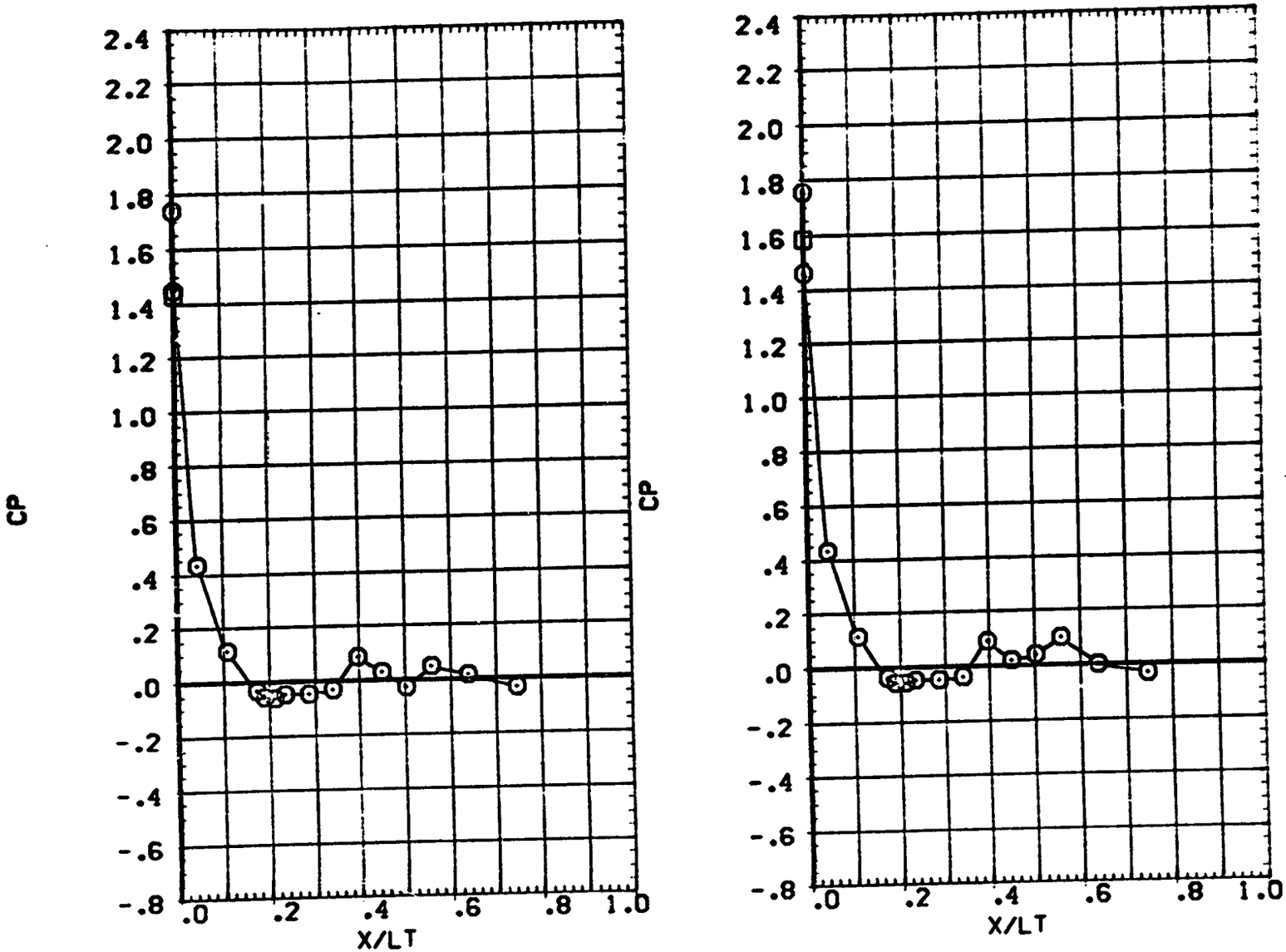
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNTC8)

SYMBOL	PHI	BETAT	MACH
○	180.000	-4.330	3.502
□	270.000	2.260	

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



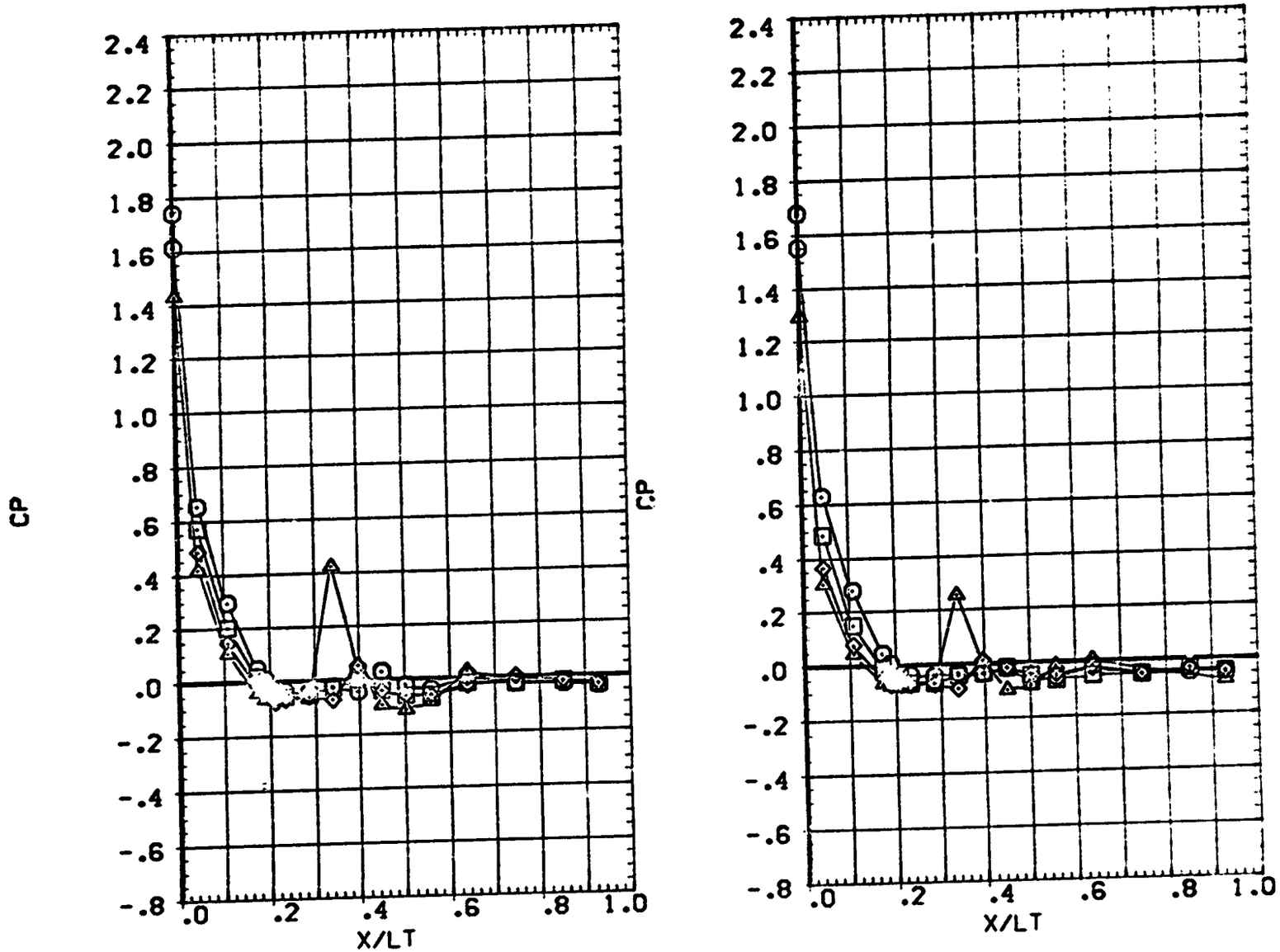
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBNT08)

SYMBOL	PHI	BETAT	MACH
○	.000	4.460	3.502
□	30.000	8.860	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	4.000	SPOILS	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



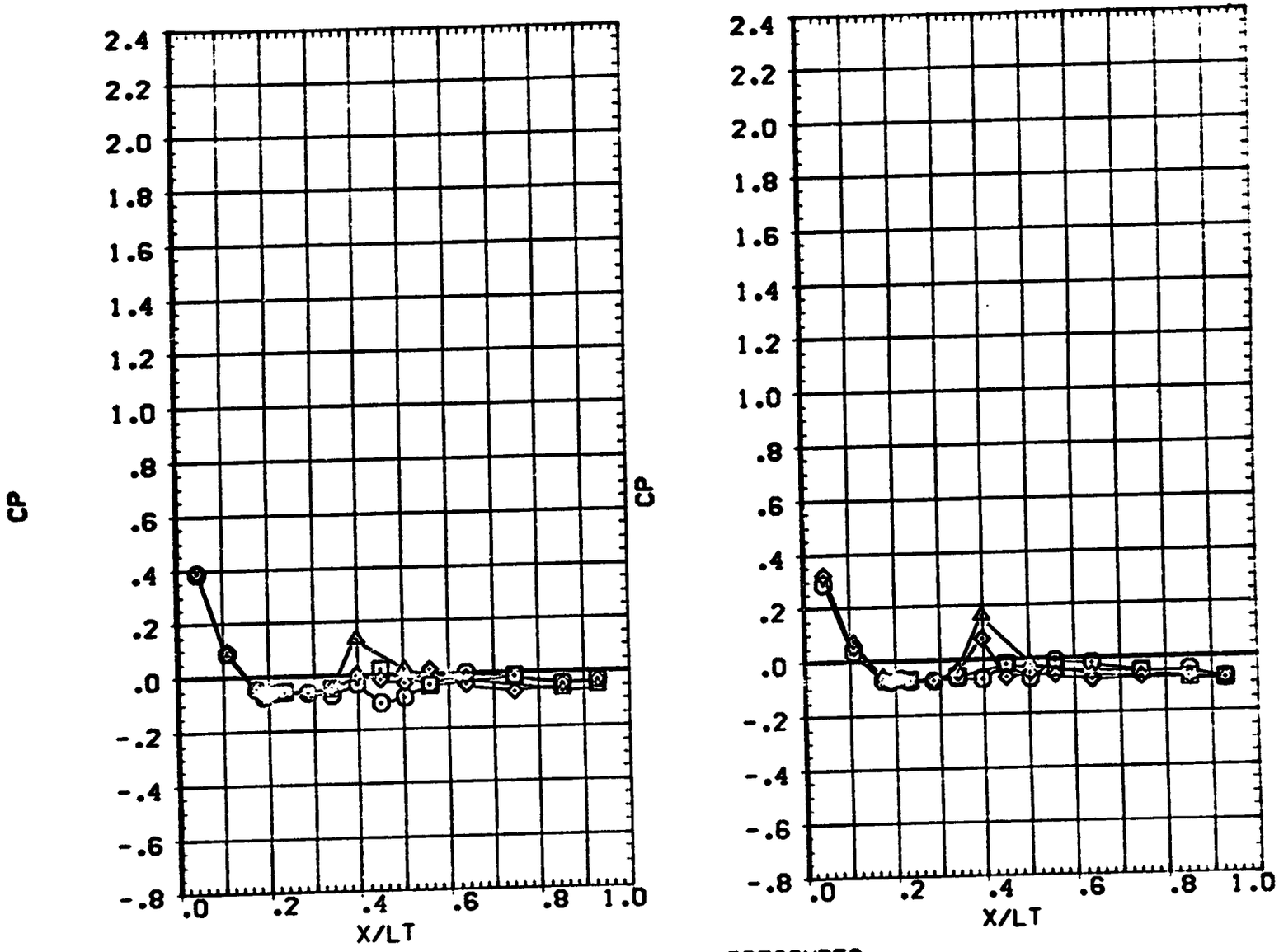
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 :A9 C2A + S3 + '9 EXTERNAL TANK (RBNTO8)

SYMBOL	PHI	BETAT	MACH
○	120.000	4.460	3.502
□	135.000	8.860	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	4.000	ORGINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



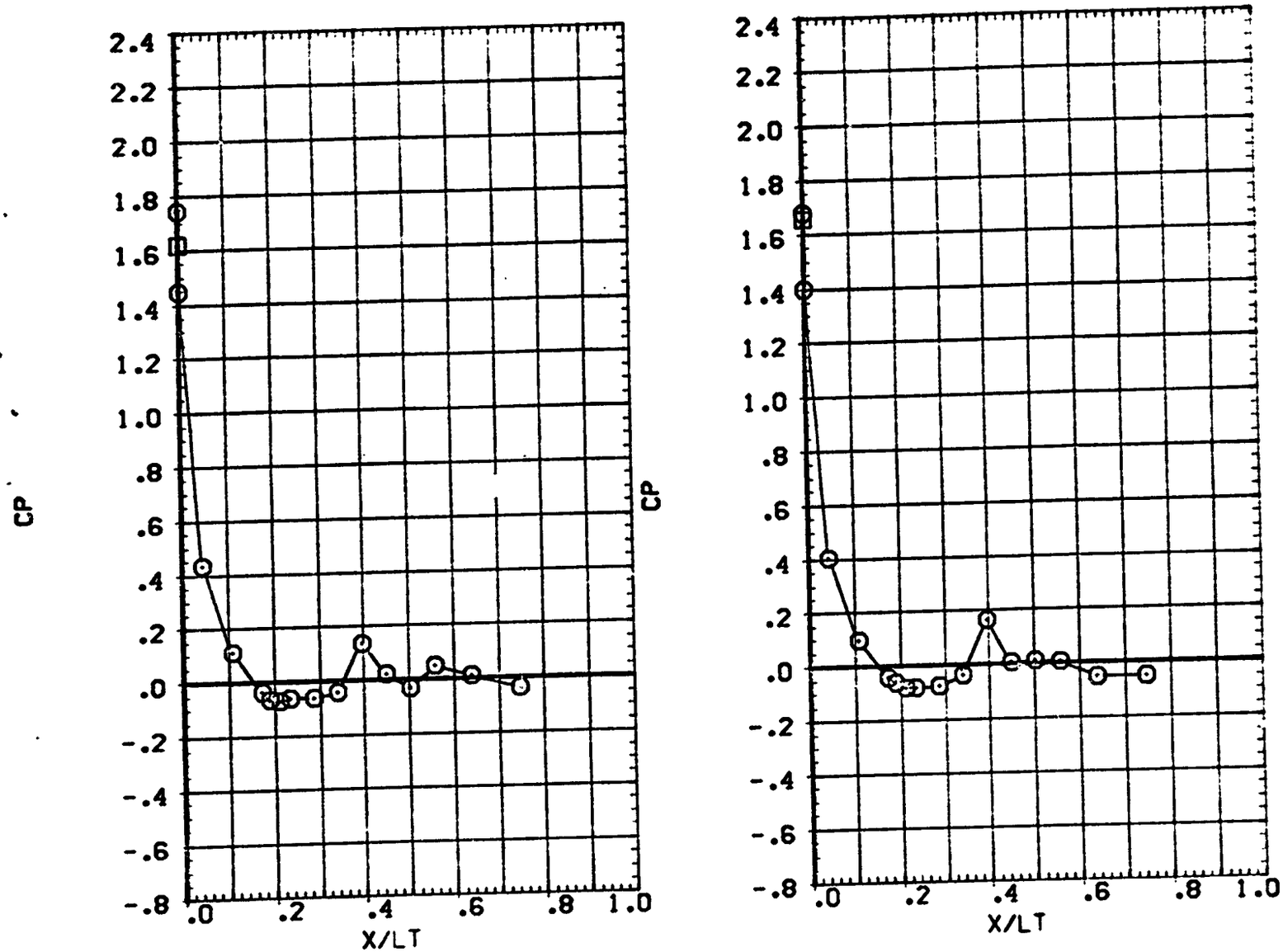
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBNTC8)

SYMBOL	PHI	BETAT	MACH
○	180.000	4.460	3.502
□	270.000	8.860	

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



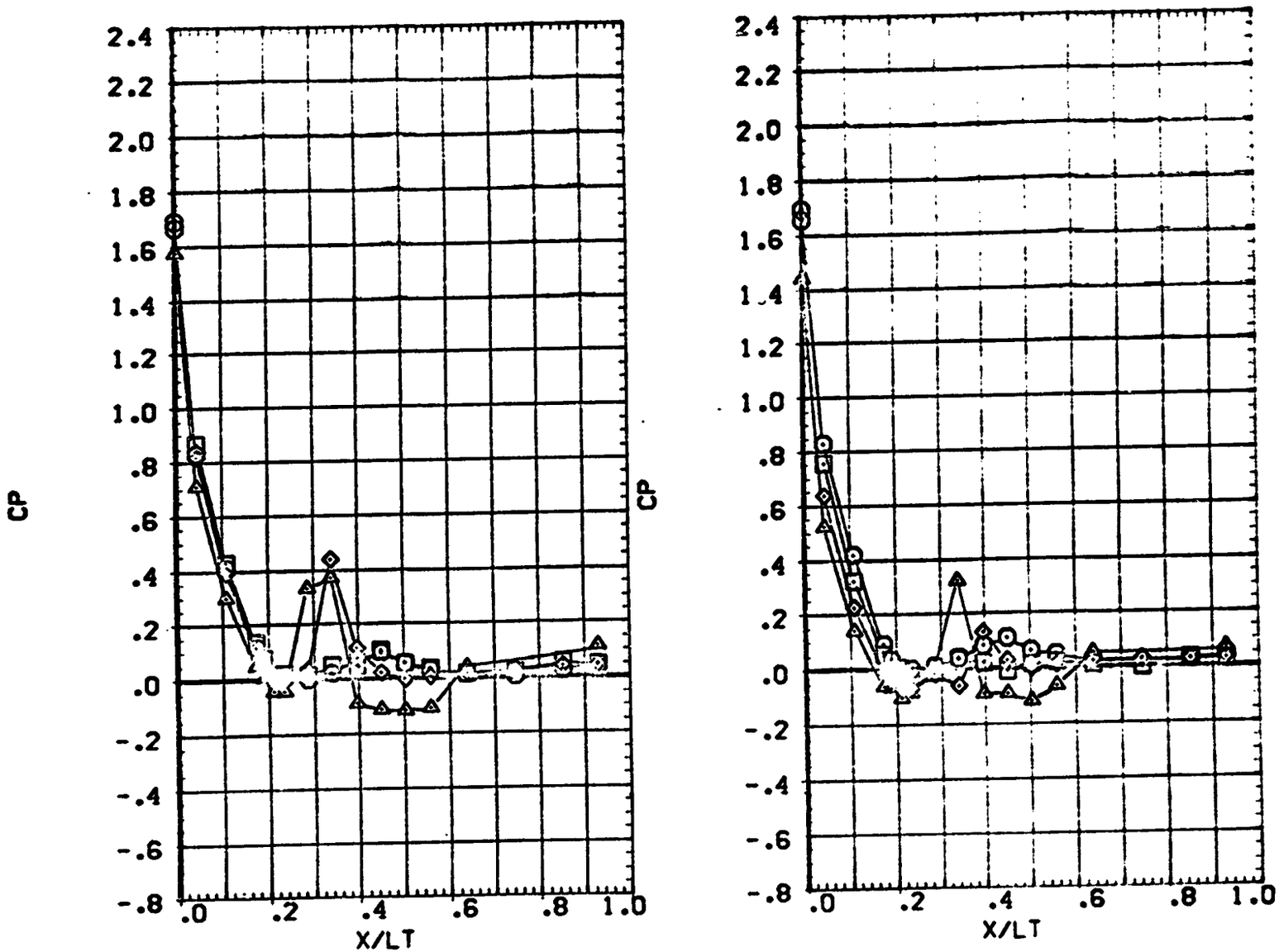
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK (ORBITER)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.170	2.498
□	30.000	2.180	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.000
RUDDER	.000	ELEVON	.000
RUDDLR	.000		



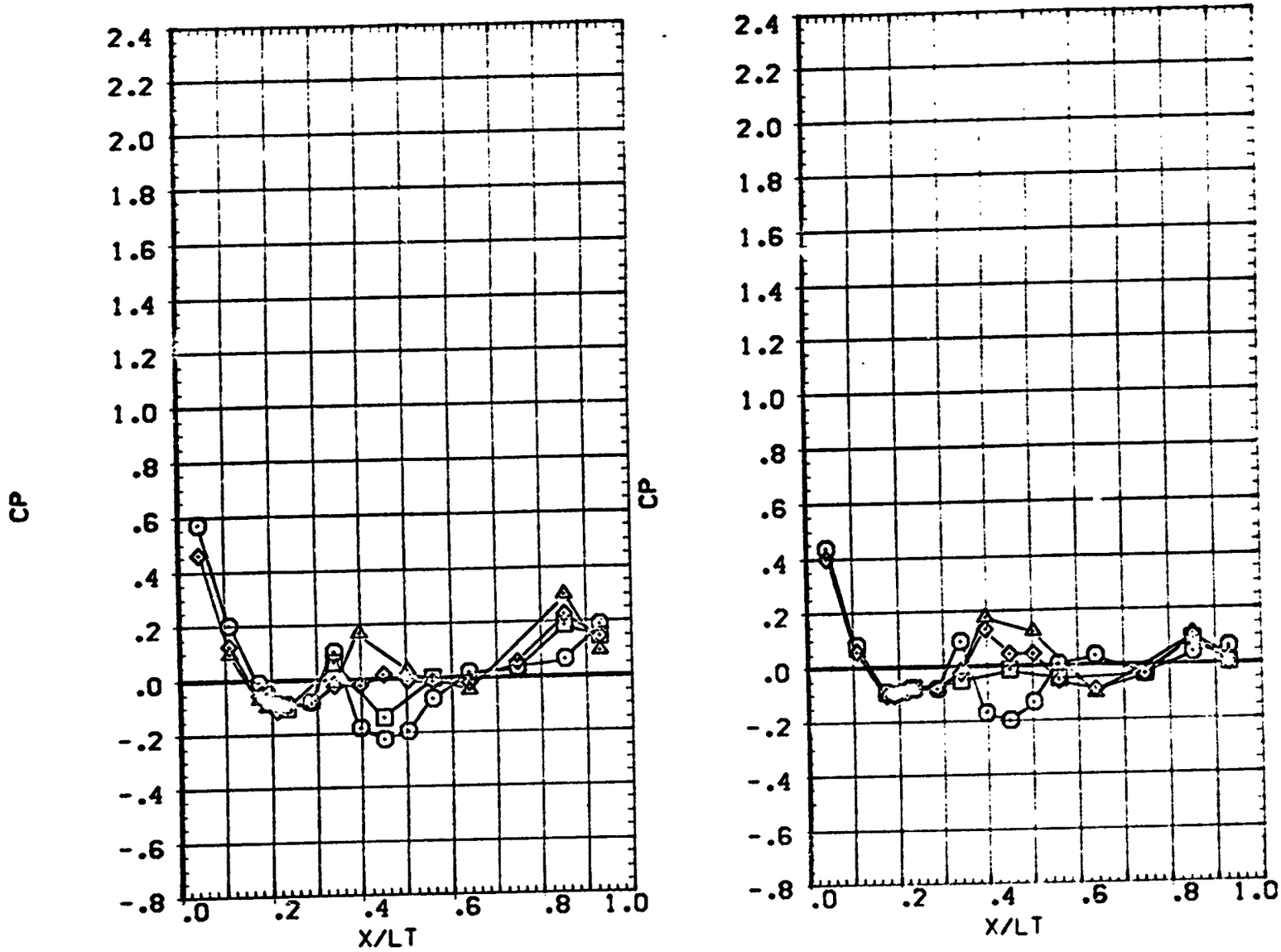
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A8 C2A - S3 - T9 EXTERNAL TANK (RBNTIC)

SYMBOL	PHI	BETAT	MACH
○	:20.000	-4.170	2.498
□	:35.000	2.180	
◇	:50.000		
△	:65.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROLLER	.000		



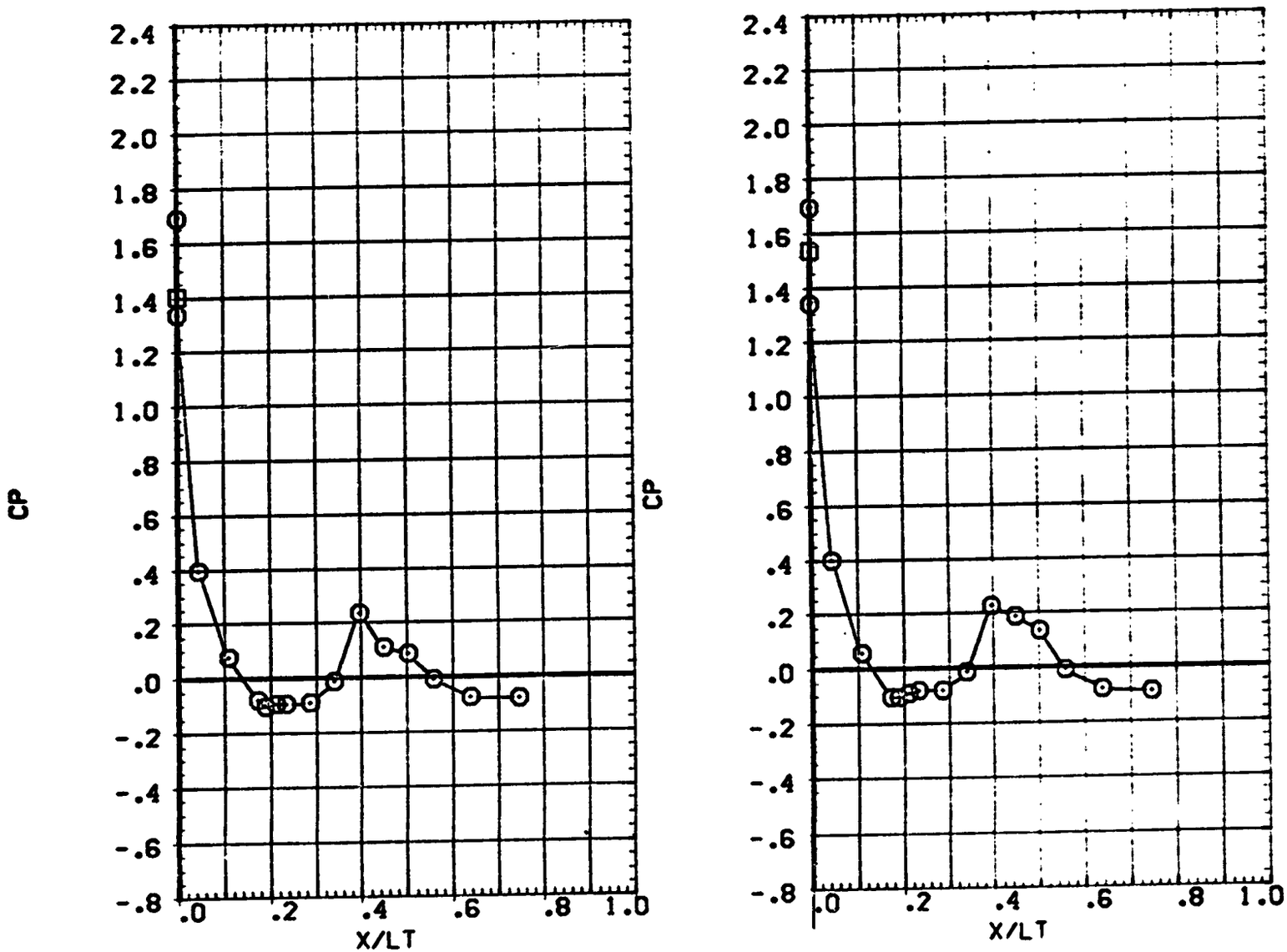
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AYES 87-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBVTIC)

SYMBOL	PHI	BETAT	MACH
○	180.000	-4.170	2.498
□	270.000	7.180	

PARAMETRIC VALUES

ALPHA*	8.000	DBIAC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



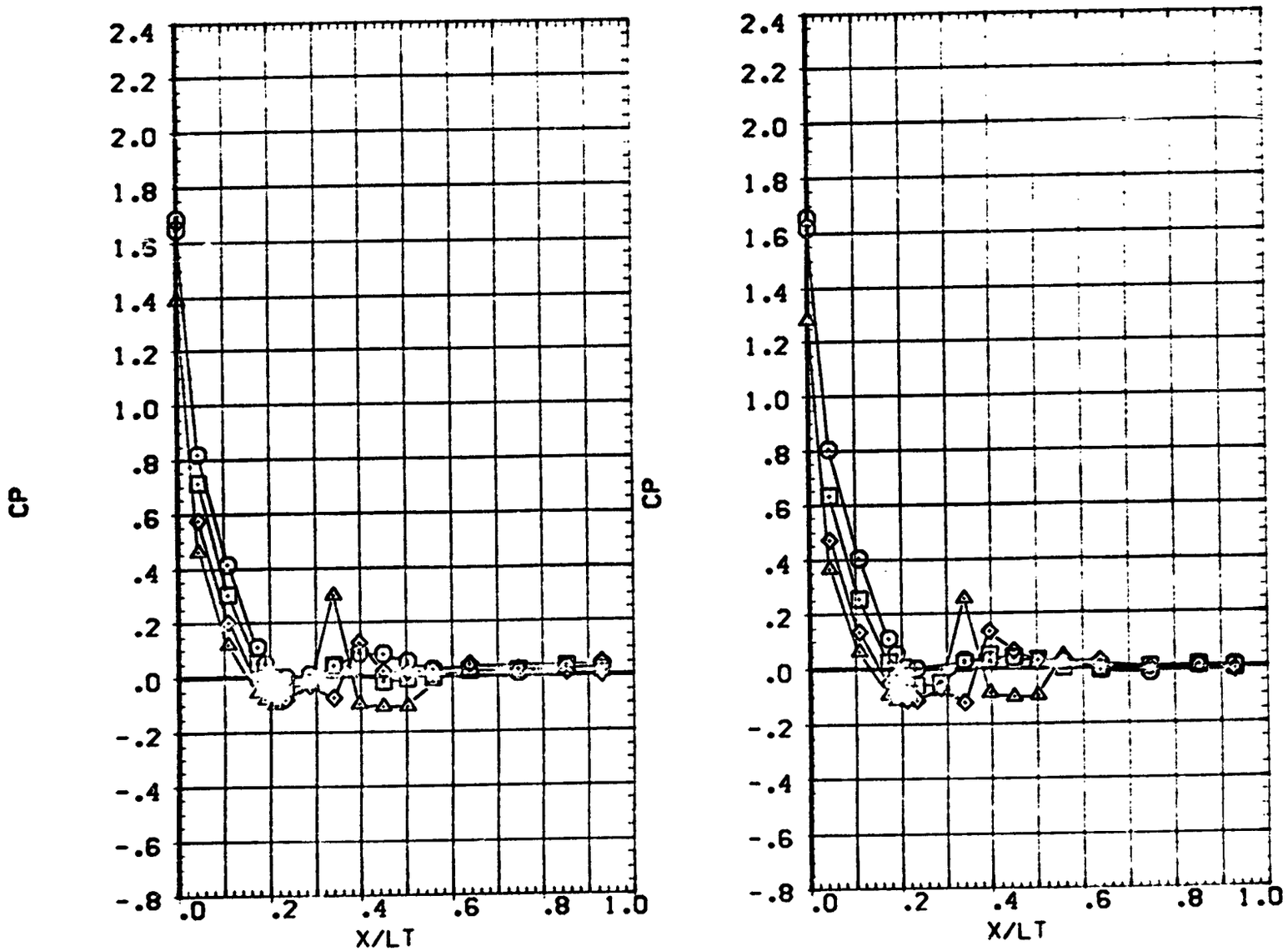
LONGITUDINAL-DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 C2A - S3 - T9 EXTERNAL TANK (ORBITER)

SYMBOL	PHI	BETAT	MACH
○	.000	4.320	2.498
□	30.000	8.580	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	8.000	BODY	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



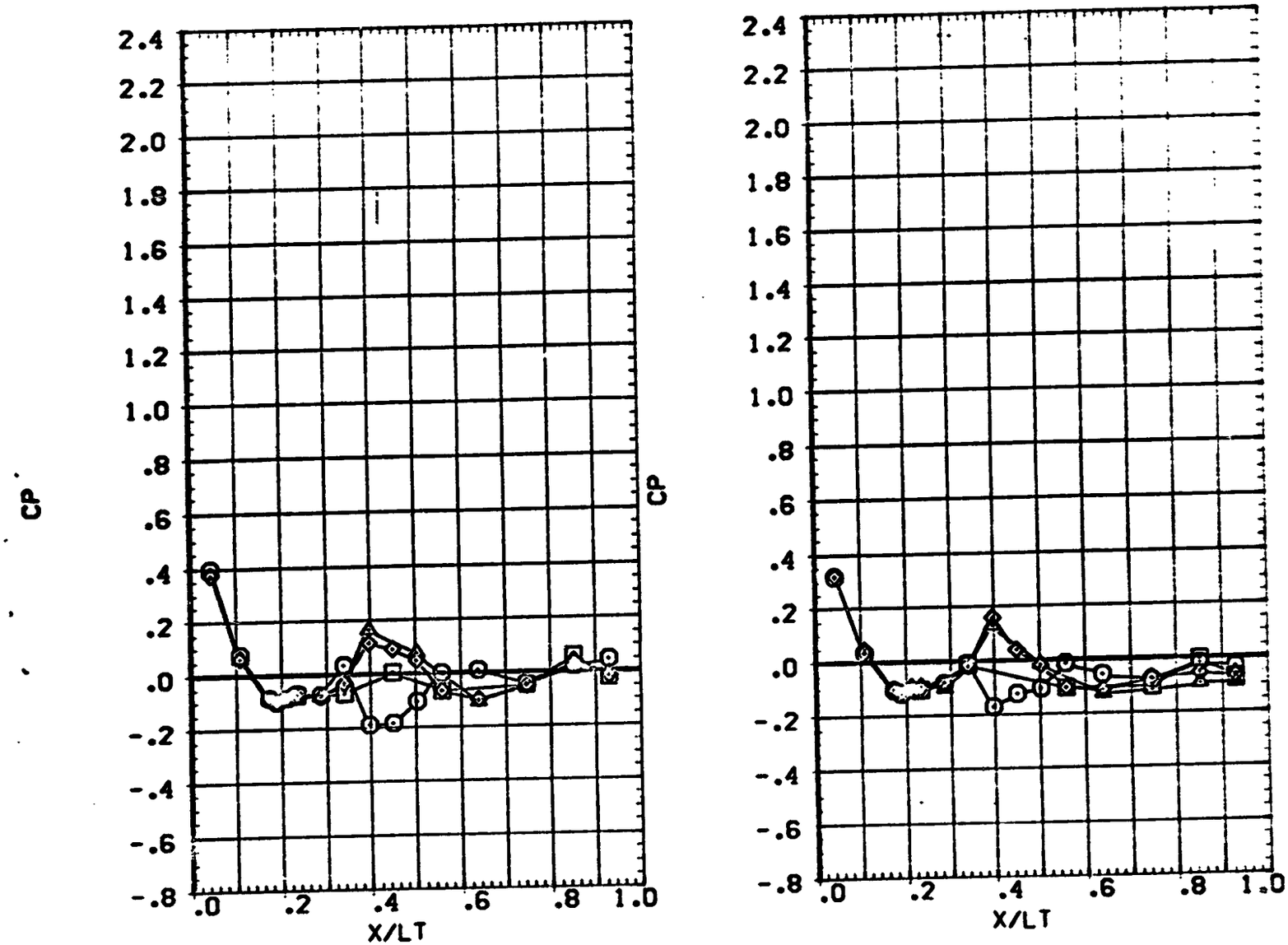
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBNTIC)

SYMBOL	PHI	BETA	MACH
○	120.000	4.320	2.498
□	135.000	8.580	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



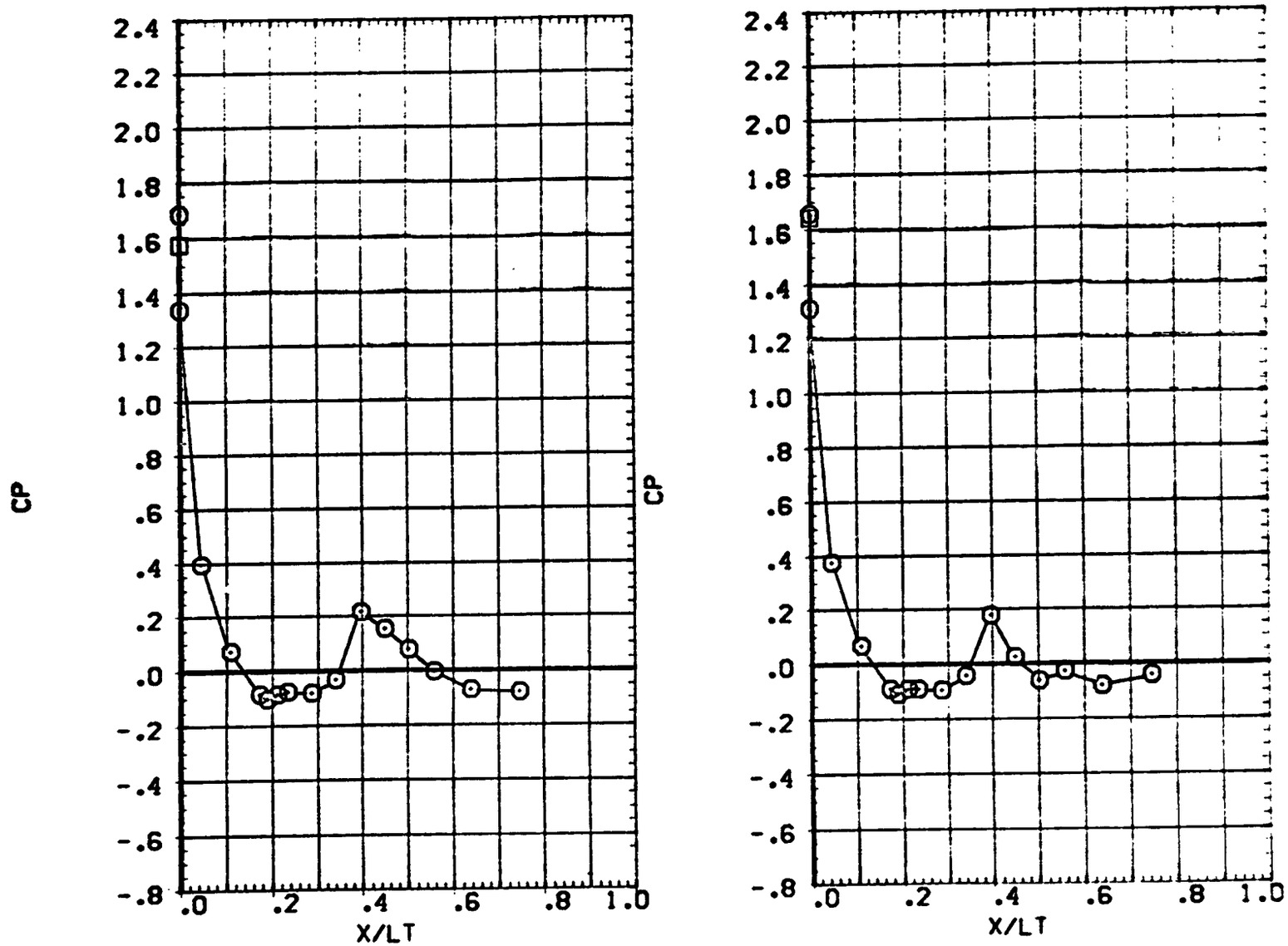
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AYES 87-707 :A8 C2A + S3 + T9 EXTERNAL TANK (RBNTIC)

SYMBOL	PHI	BETAT	MACH
○	180.000	4.370	2.498
□	270.000	8.580	

PARAMETRIC VALUES

ALPHAT	8.000	SPEINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



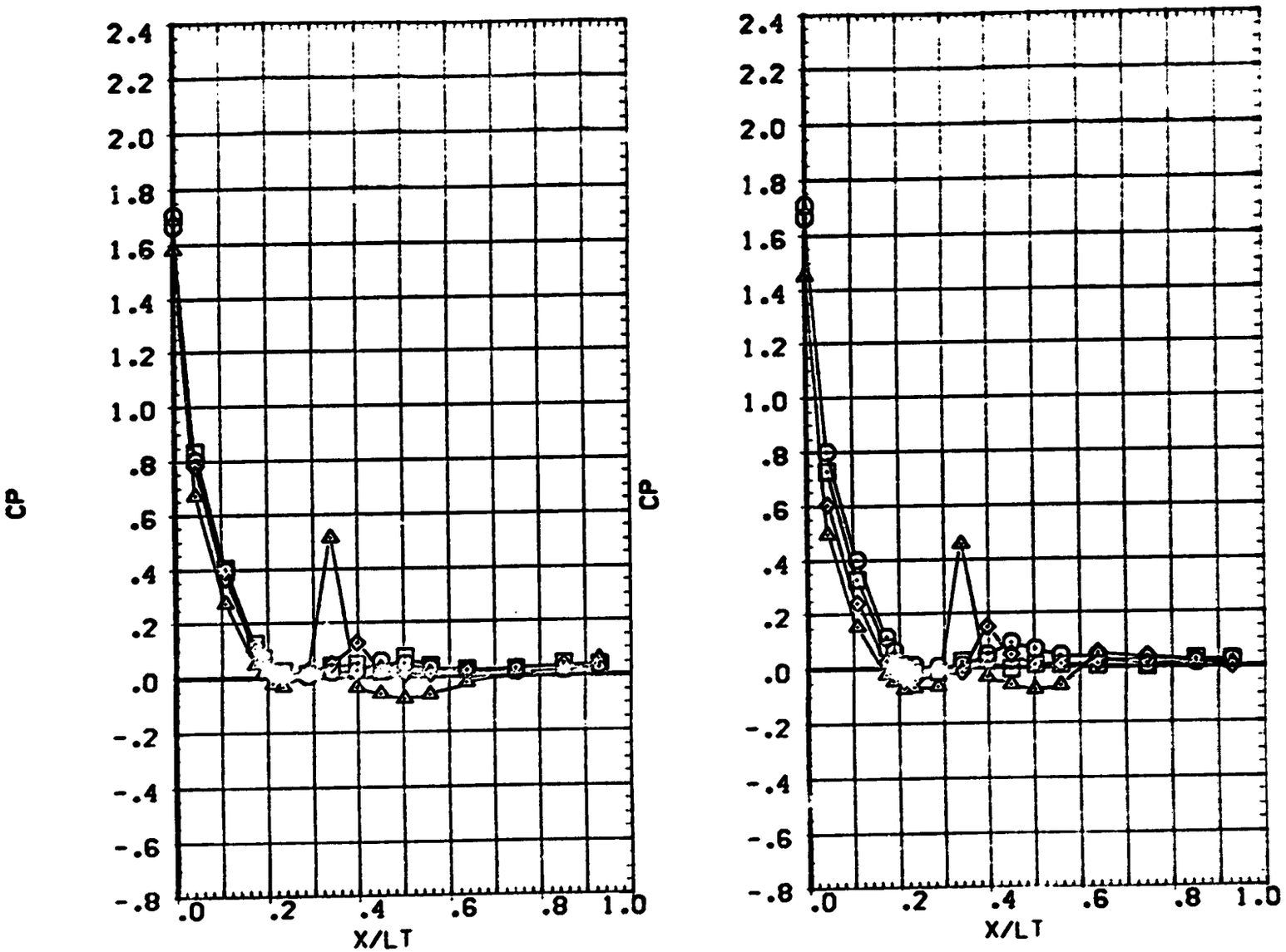
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA8 32A + S3 + T8 EXTERNAL TANK [illegible]

SYMBOL	PHI	BETAT	MACH
○	.000	-4.240	2.999
□	30.000	2.230	
◇	60.000		
△	90.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



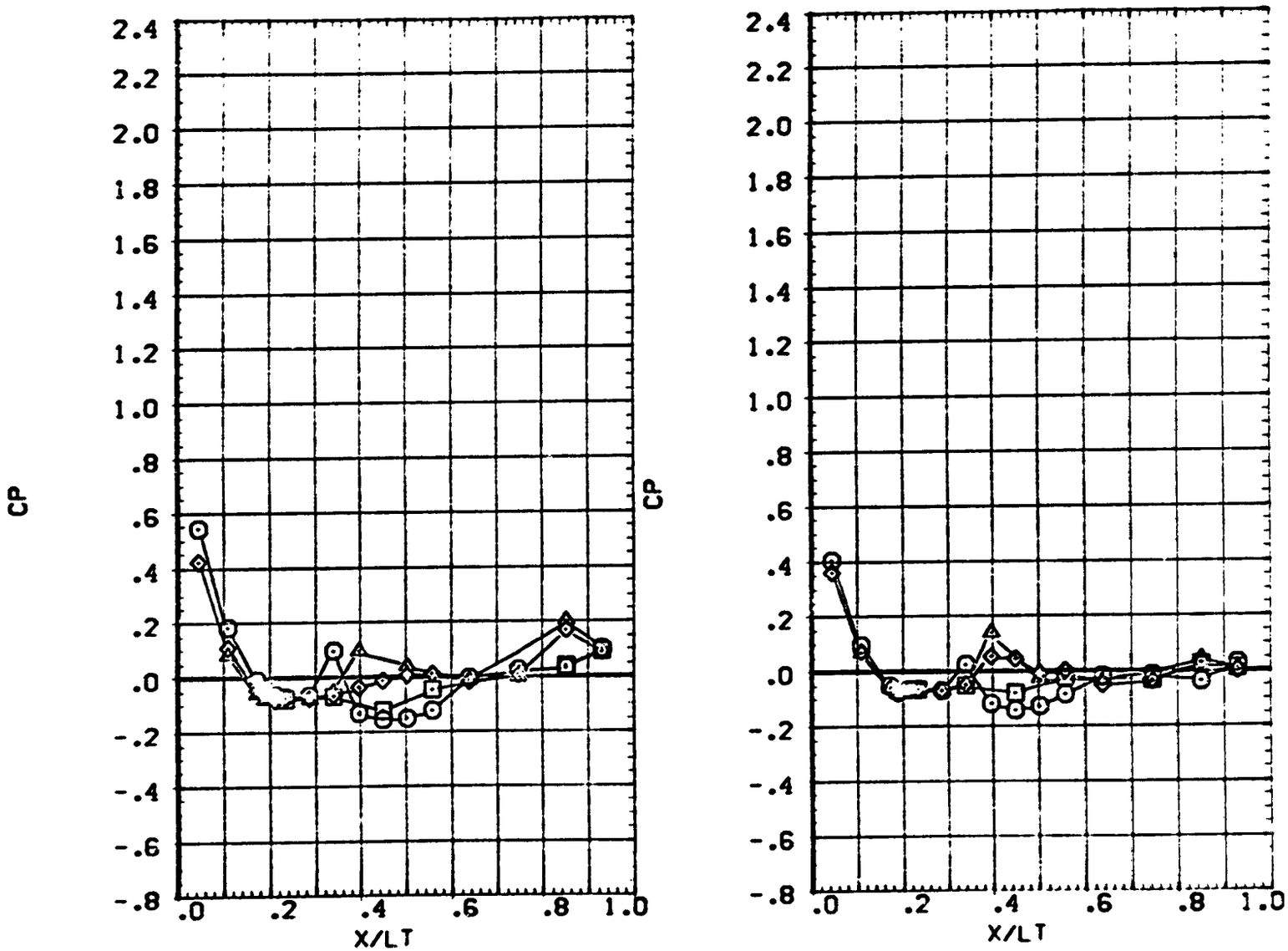
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBNTIC)

SYMBOL	PHI	BETA	MACH
○	120.000	-4.740	2.999
▽	135.000	2.230	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



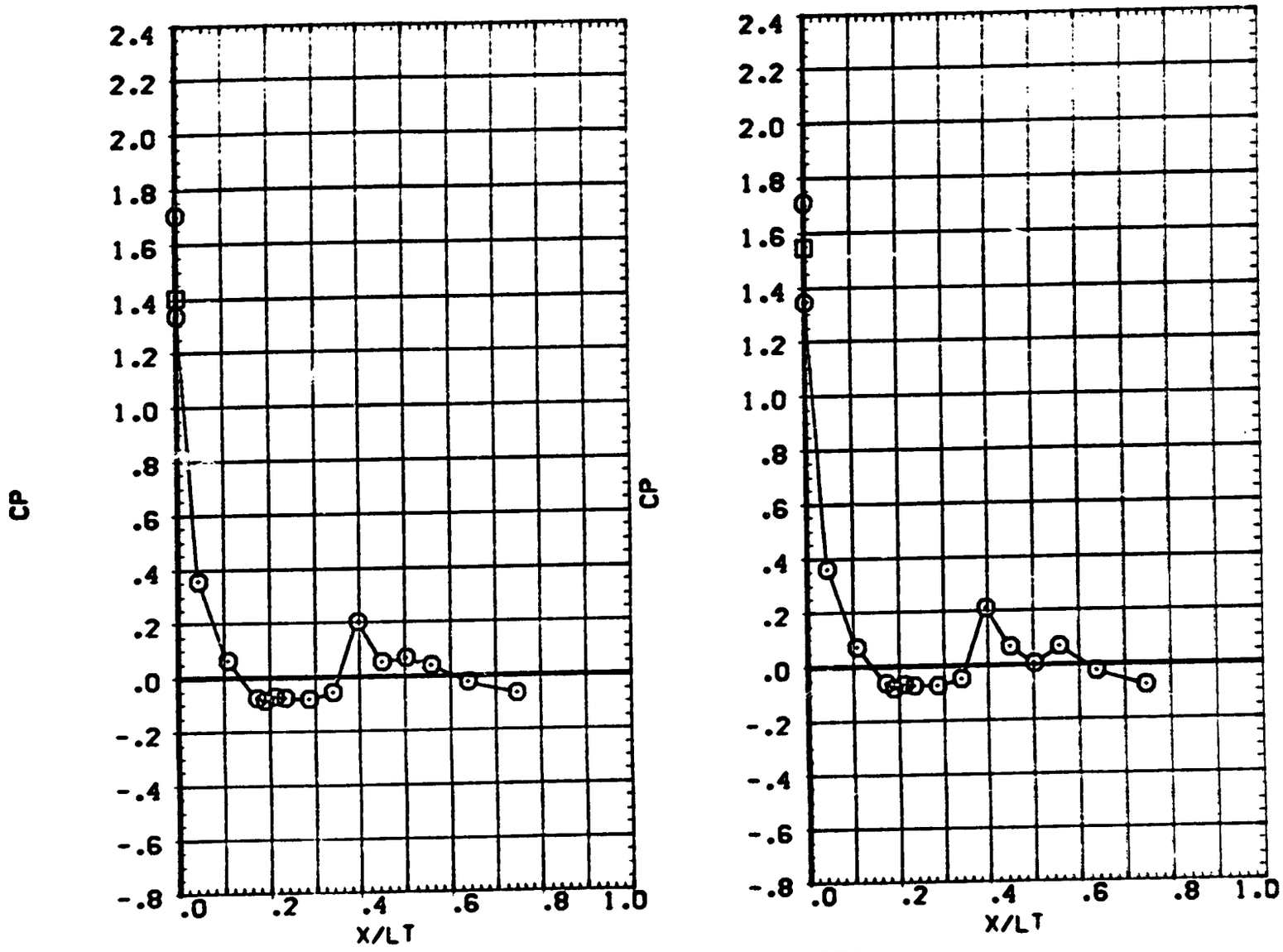
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 EXTERNAL TANK (RBNTIC)

SYMBOL	PM:	BETAT	MACH
○	180.000	-4.240	2.999
□	770.000	2.230	

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



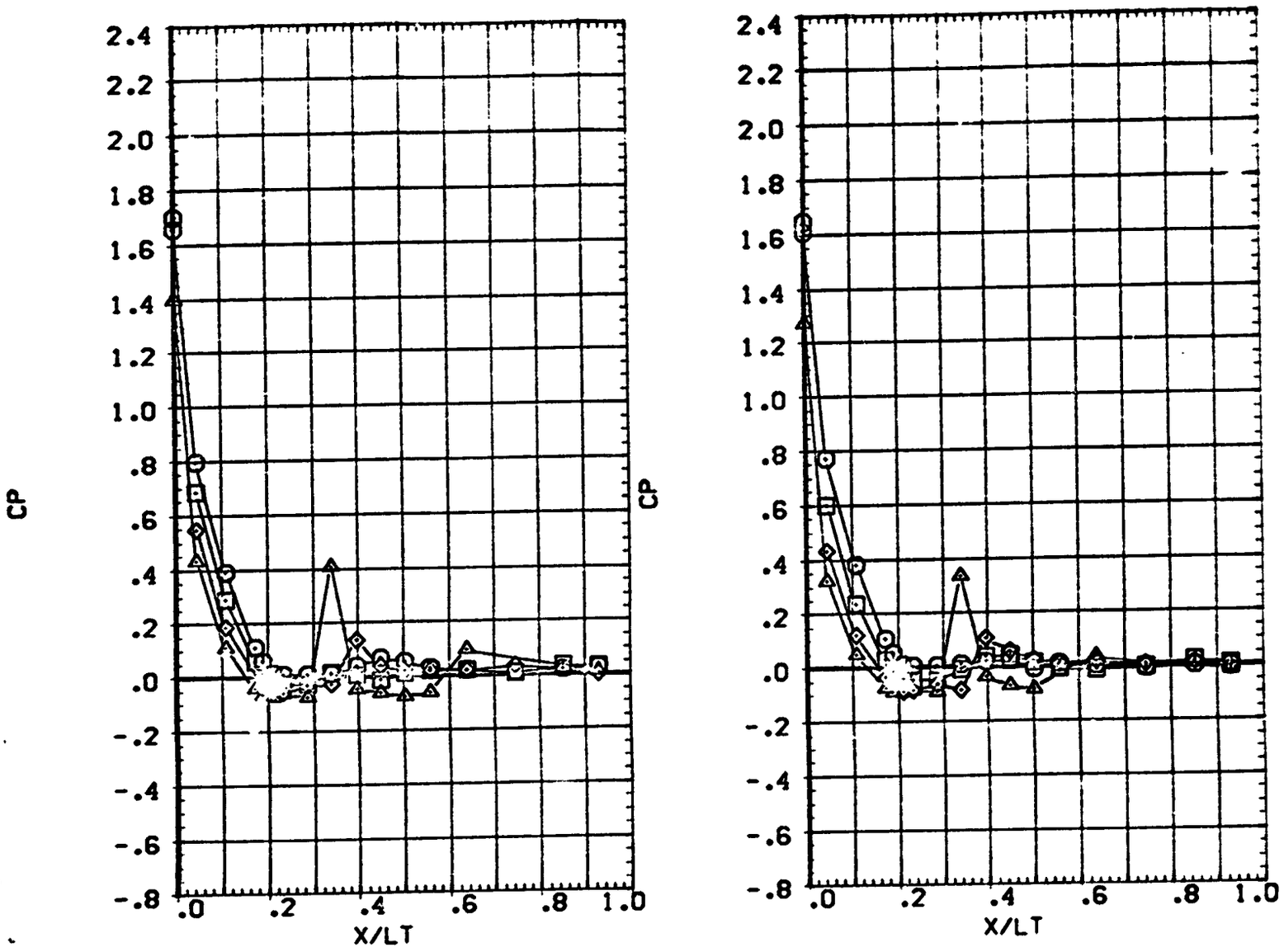
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 EXTERNAL TANK (ORBITIC)

SYMBOL	PHI	BETA	MACH
○	.000	4.400	2.999
◇	30.000	8.740	
△	60.000		
	90.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



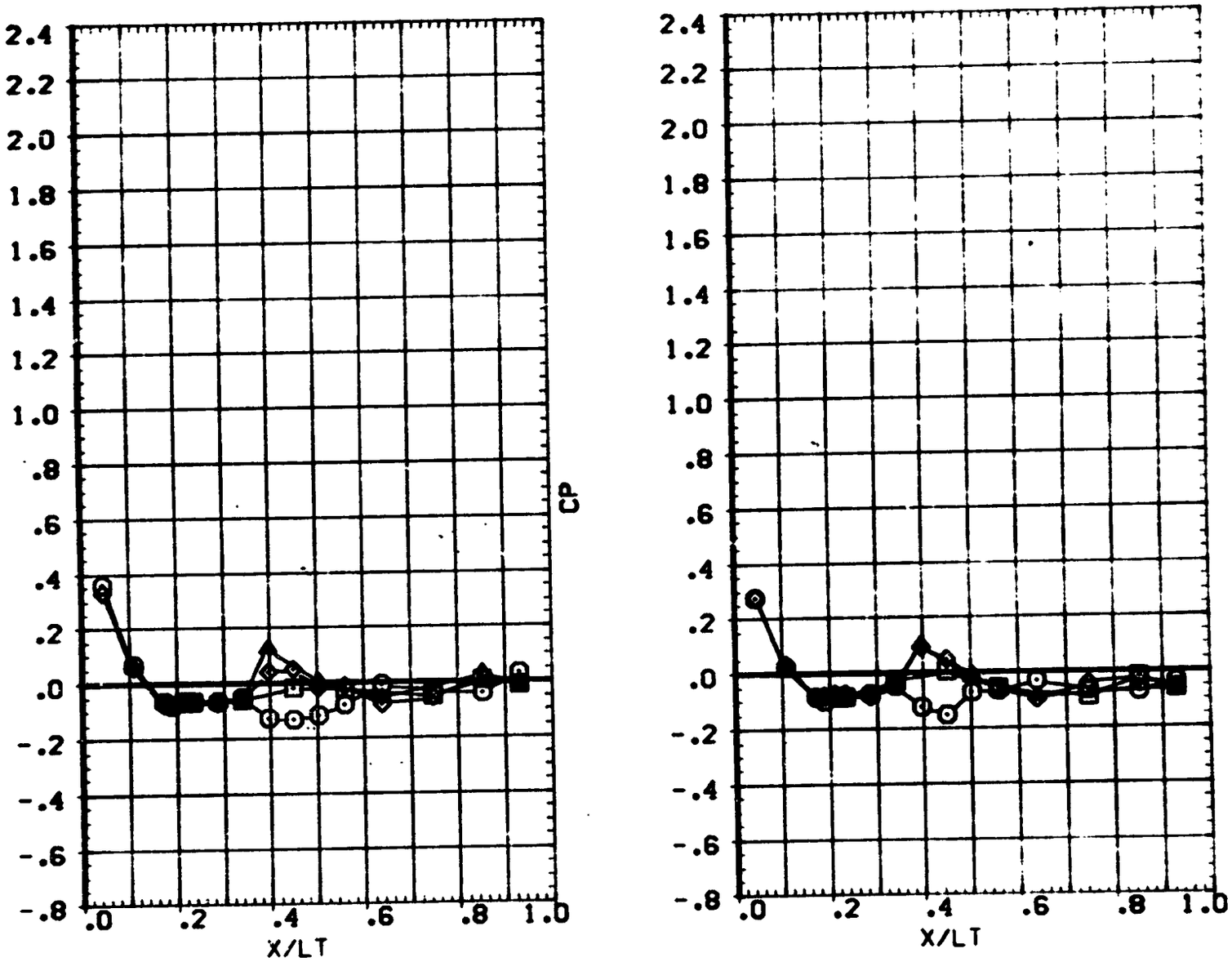
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 :A9 32A + S3 + '9 EXTERNAL 'ANK (RBN':C)

SYMBOL	PHI	BETAT	MACH
○	120.000	4.400	2.999
□	135.000	8.740	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHA	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDDLR	.000		

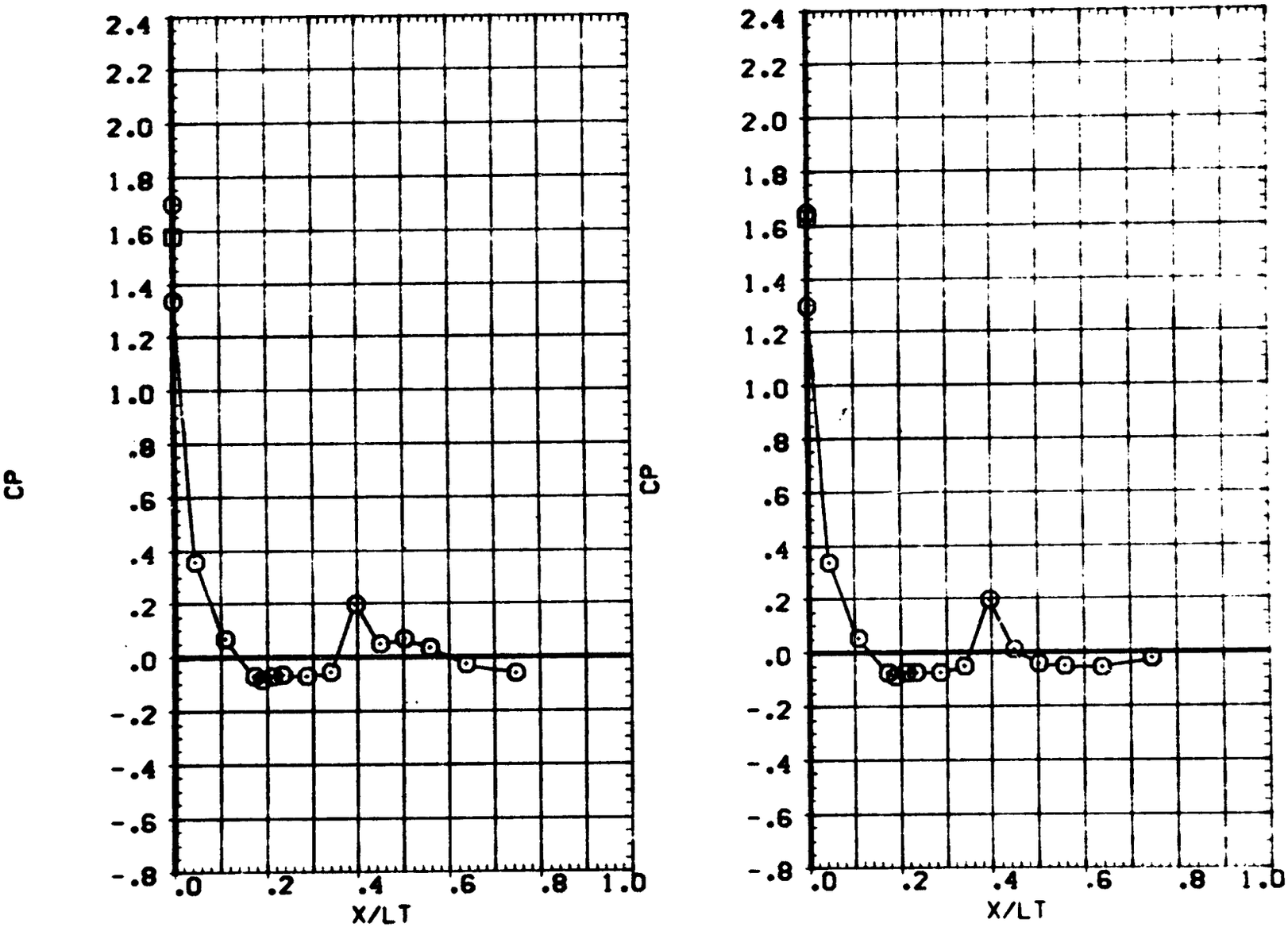


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL	PHI	BETA	MACH
○	180.000	4.400	2.999
□	270.000	8.740	

PARAMETRIC VALUES

ALPHA	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDDER	.000		



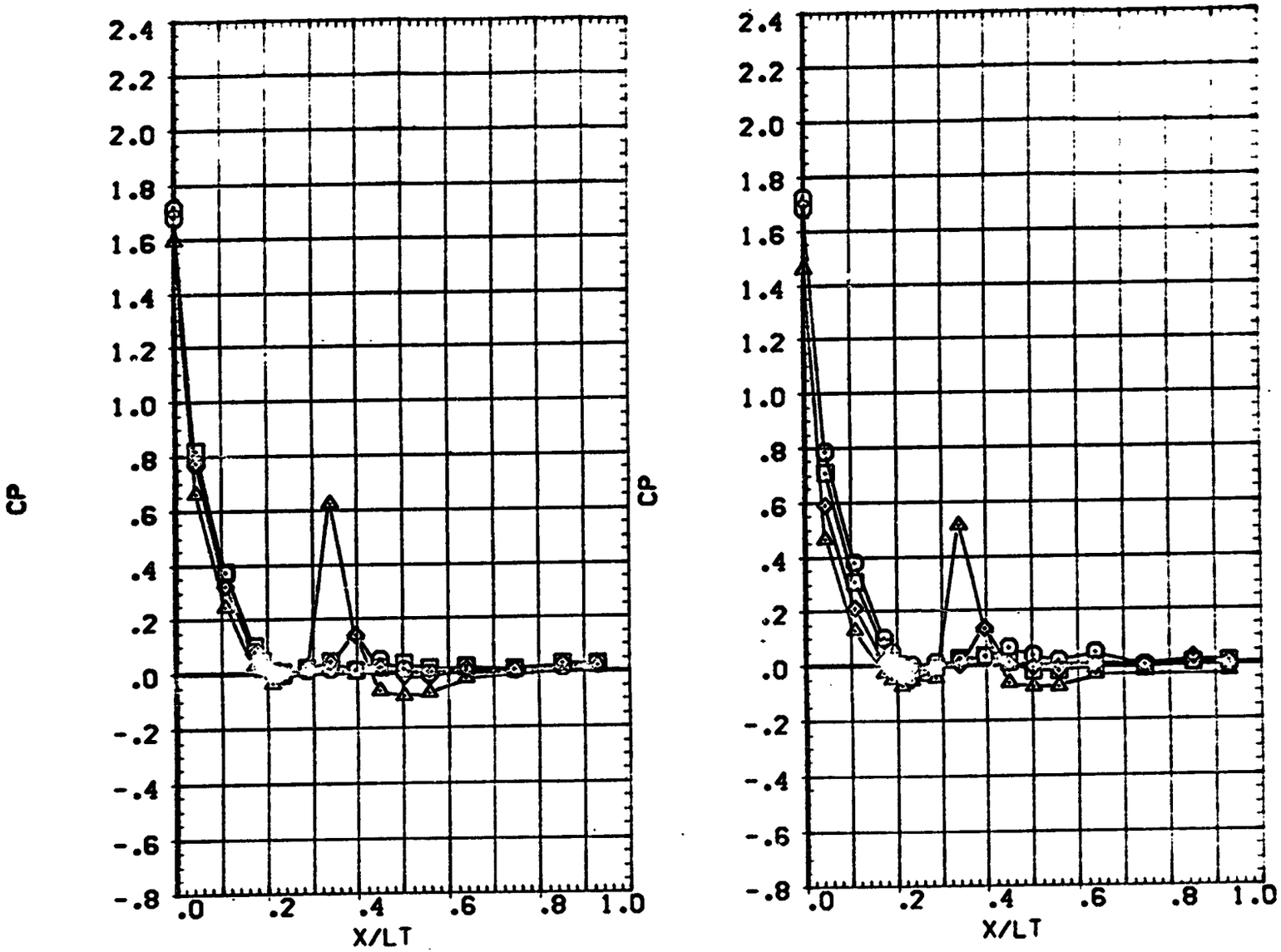
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBNTIC)

SYMBOL	PHI	BETAT	MACH
○	.0000	-4.310	3.502
◇	30.0000	2.260	
△	60.0000		
	90.0000		

PARAMETRIC VALUES

ALPHAT	8.0000	SREV/C	.500
RUDDER	.0000	ELEVON	.000
RUDFLR	.0000		



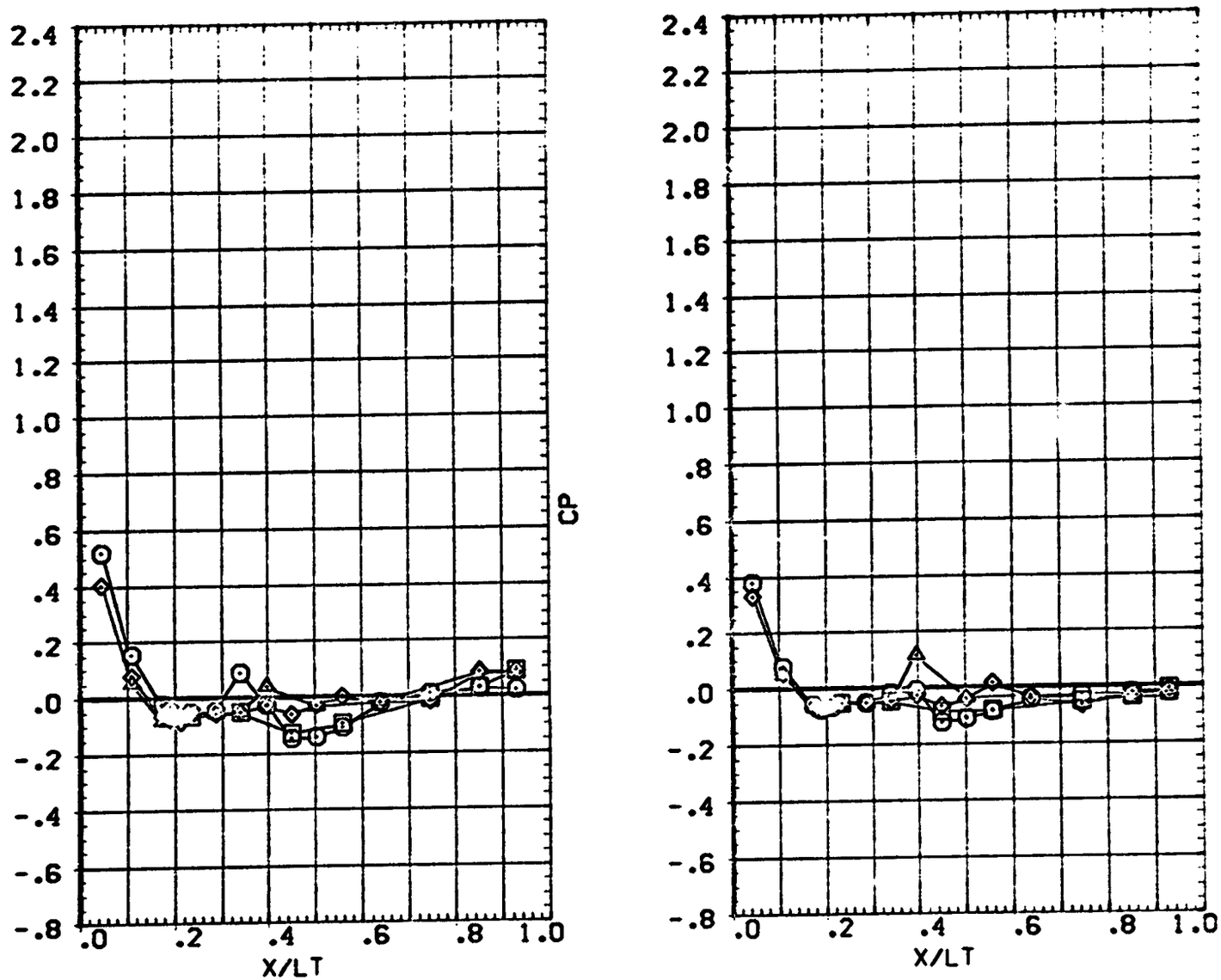
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 02A - S3 - T9 EXTERNAL TANK (RBNT10)

SYMBOL	PHI	BETAT	MACH
○	120.000	-4.310	3.502
□	135.000	2.260	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLP	.000		



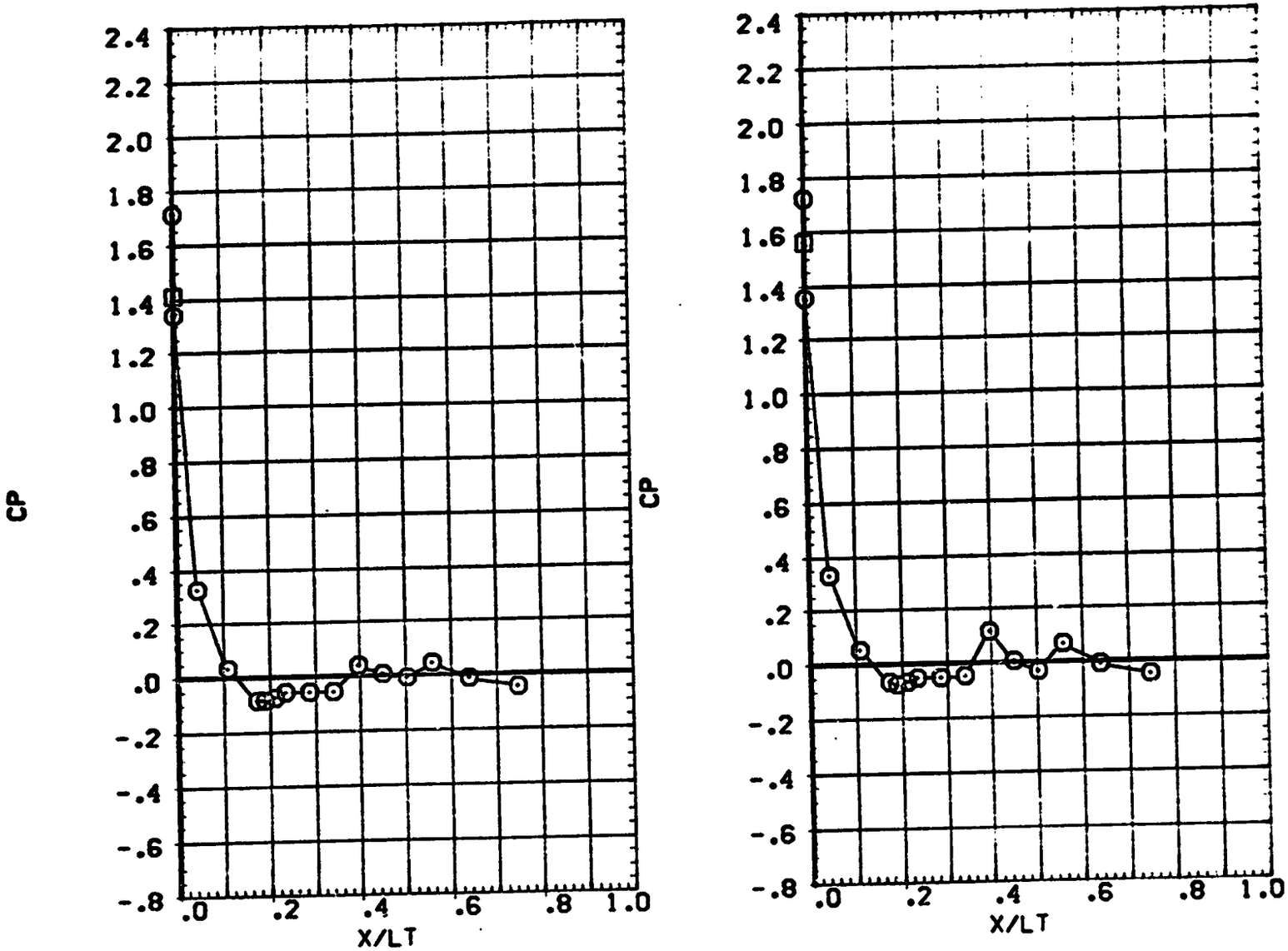
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 C2A - S3 - T9 EXTERNAL TANK (ORBITIC)

SYMBOL	PHI	BETA	MACH
○	180.000	-4.310	3.502
□	270.000	2.260	

PARAMETRIC VALUES

ALPHA	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROLL_R	.000		



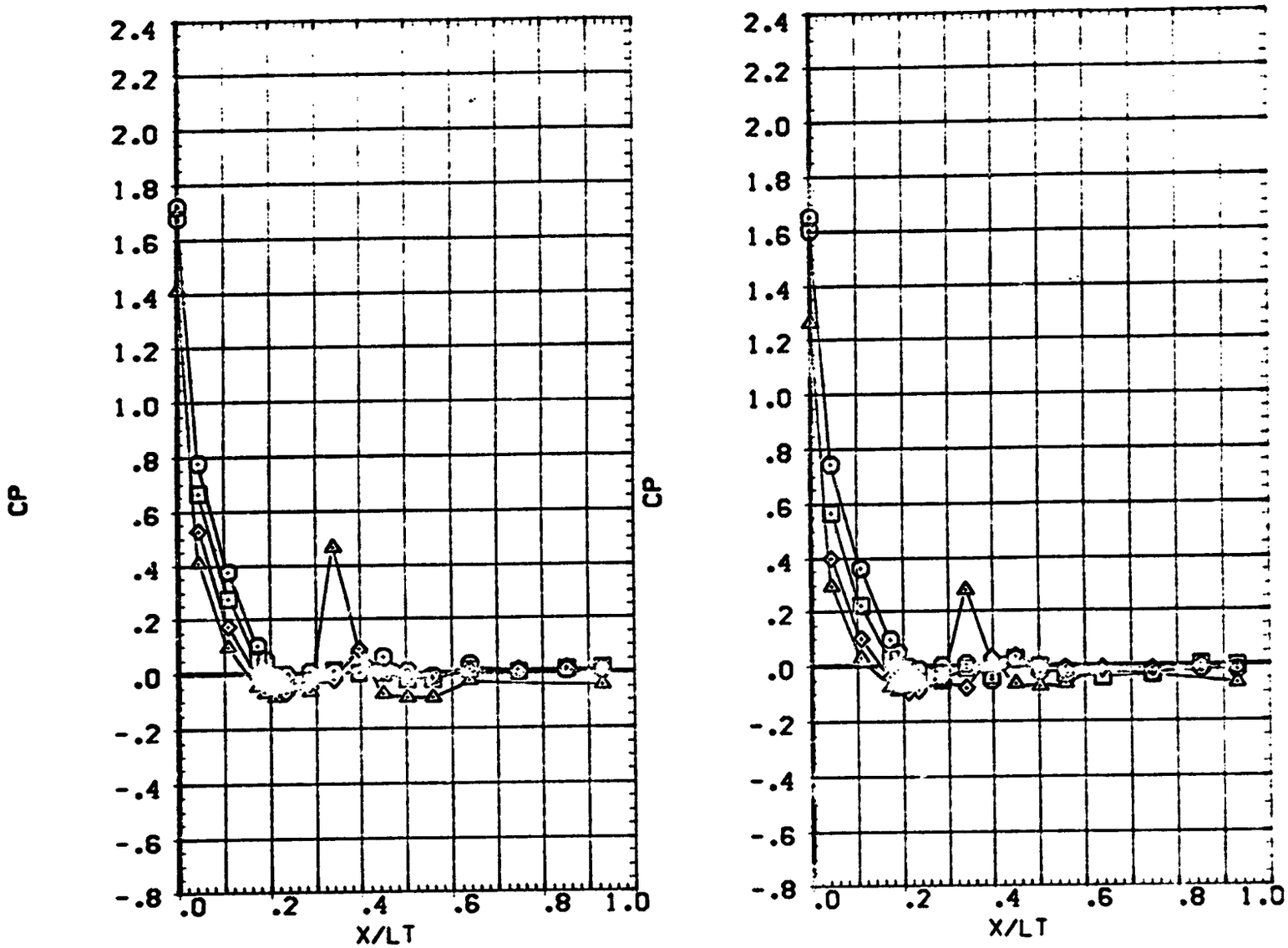
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBNTIC)

SYMBOL	PHI	BETA	MACH
	.000	4.480	3.502
	30.000	8.000	
	60.000		
	90.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBITC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



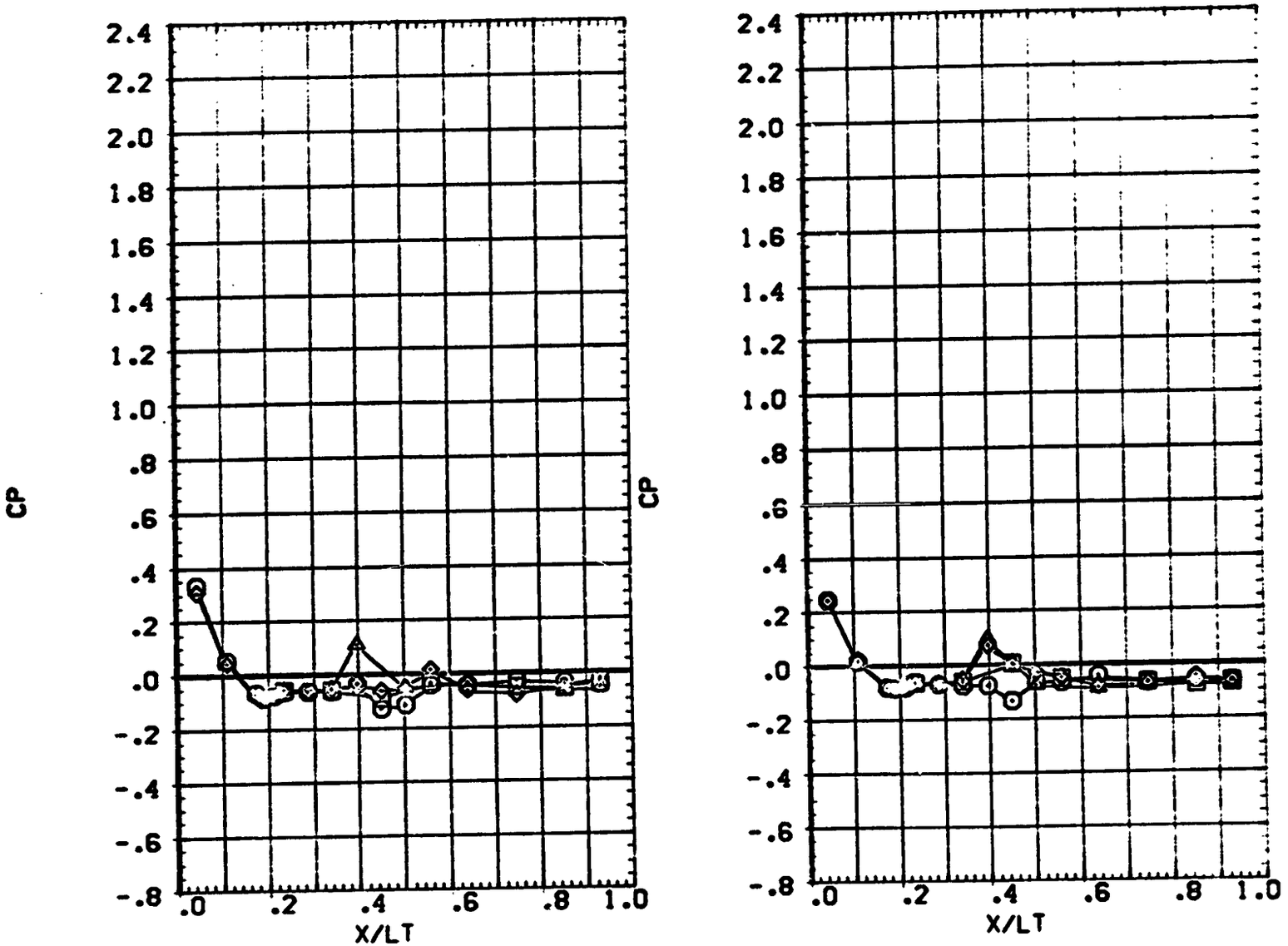
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBNT10)

SYMBOL	PHI	BETAT	MACH
○	120.000	1.480	3.502
□	135.000	8.000	
◇	150.000		
△	165.000		

PARAMETRIC VALUES

ALPHAT	8.000	DBINC	.500
RUDDER	.000	ELEVN	.000
RUDFLR	.000		



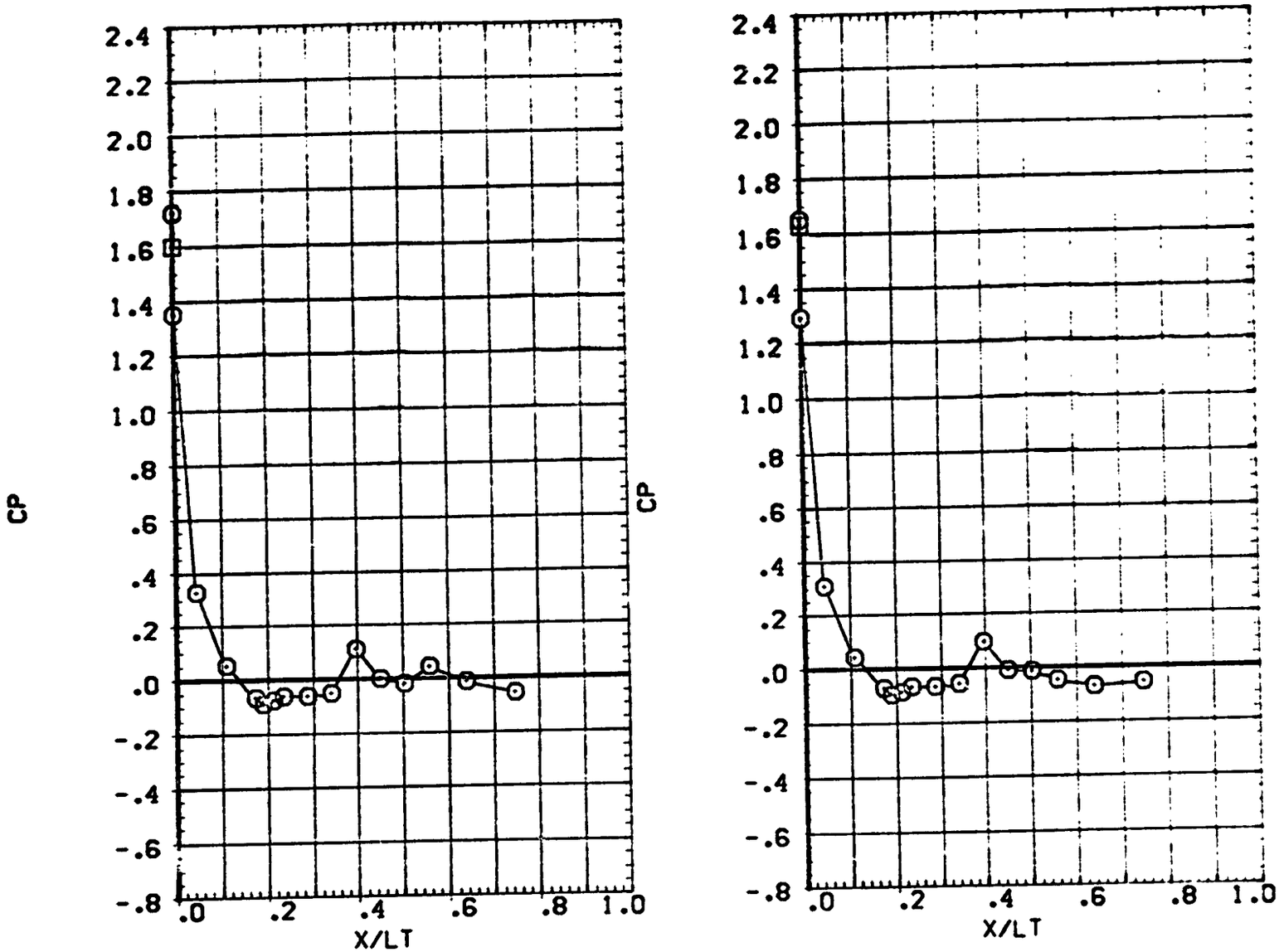
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-707 IA9 02A - S3 - T9 EXTERNAL TANK (RBNT10)

SYMBOL	PHI	BETAT	MACH
○	180.000	4.480	3.502
□	270.000	8.900	

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



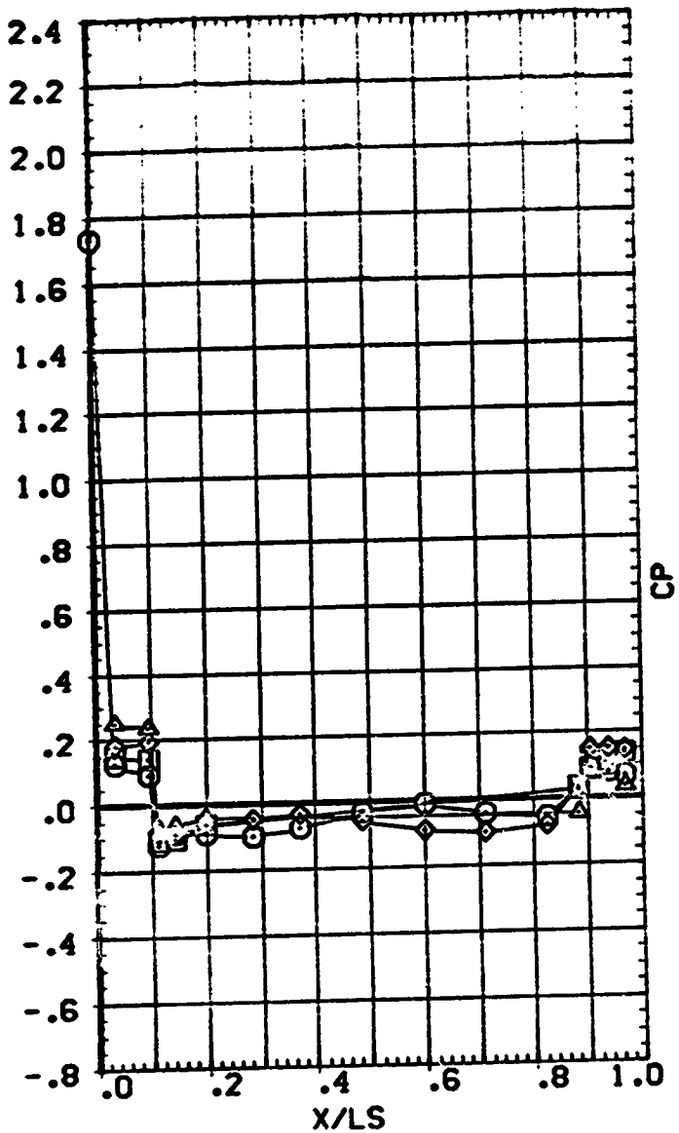
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

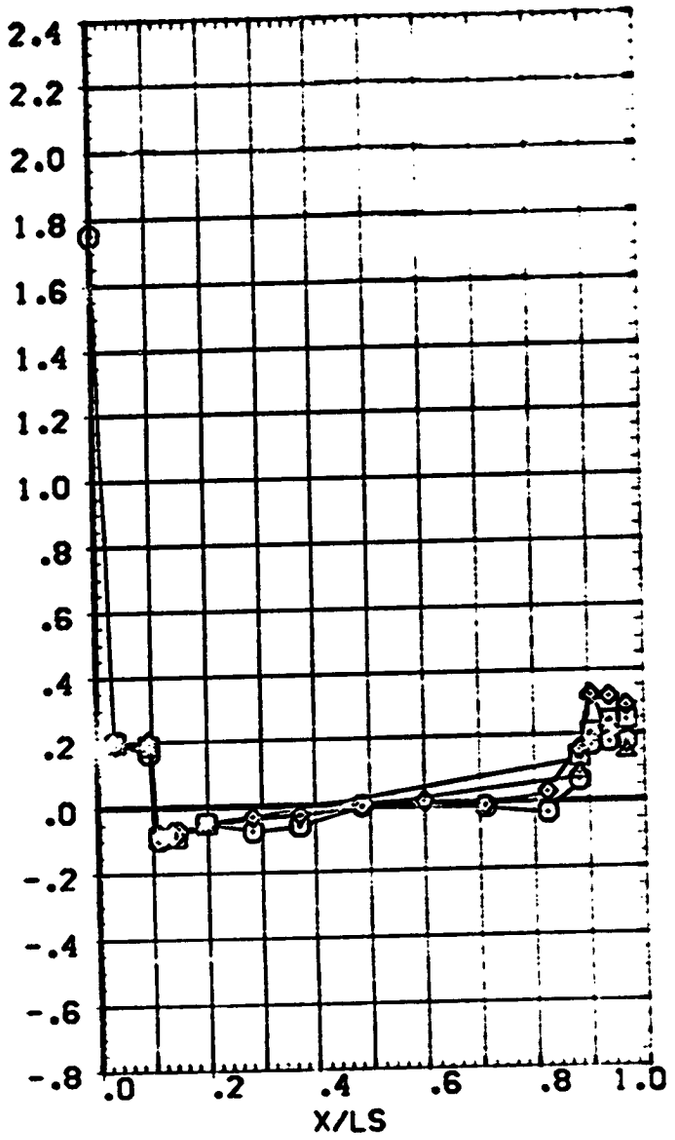
AMES 87-707 (A9 C2A + S3 + T9 SRM BOOSTER (RBNSC:)

SYMBOL	PHI	ALPHAT	MACH
○	.000	-4.030	2.498
◇	45.000	.000	
□	90.000		
△	135.000		

PARAMETRIC VALUES

BETAT	.000	DBODY	.000
RUDDER	.000	ELEVON	.000
RUDDLP	.000		





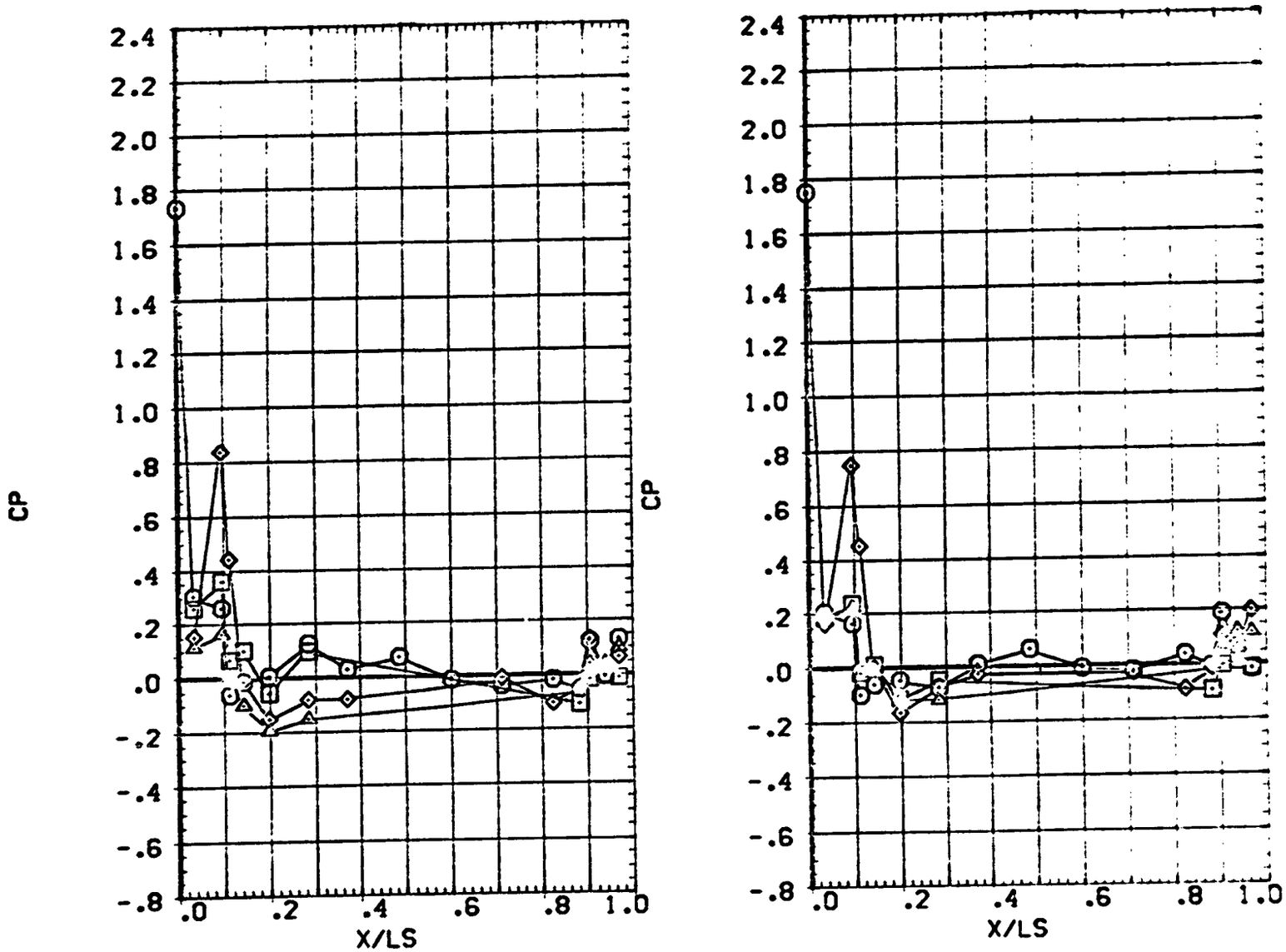
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 :A9 32A + S3 + '9 SRM BOOSTER (RBNSO:)

SYMBOL	PHI	ALPHA	MACH
○	:80.000	-4.000	2.498
□	225.000	.000	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

BETAT	.000	[illegible]	.000
RUDDER	.000	[illegible]	.000
RUDFLR	.000		



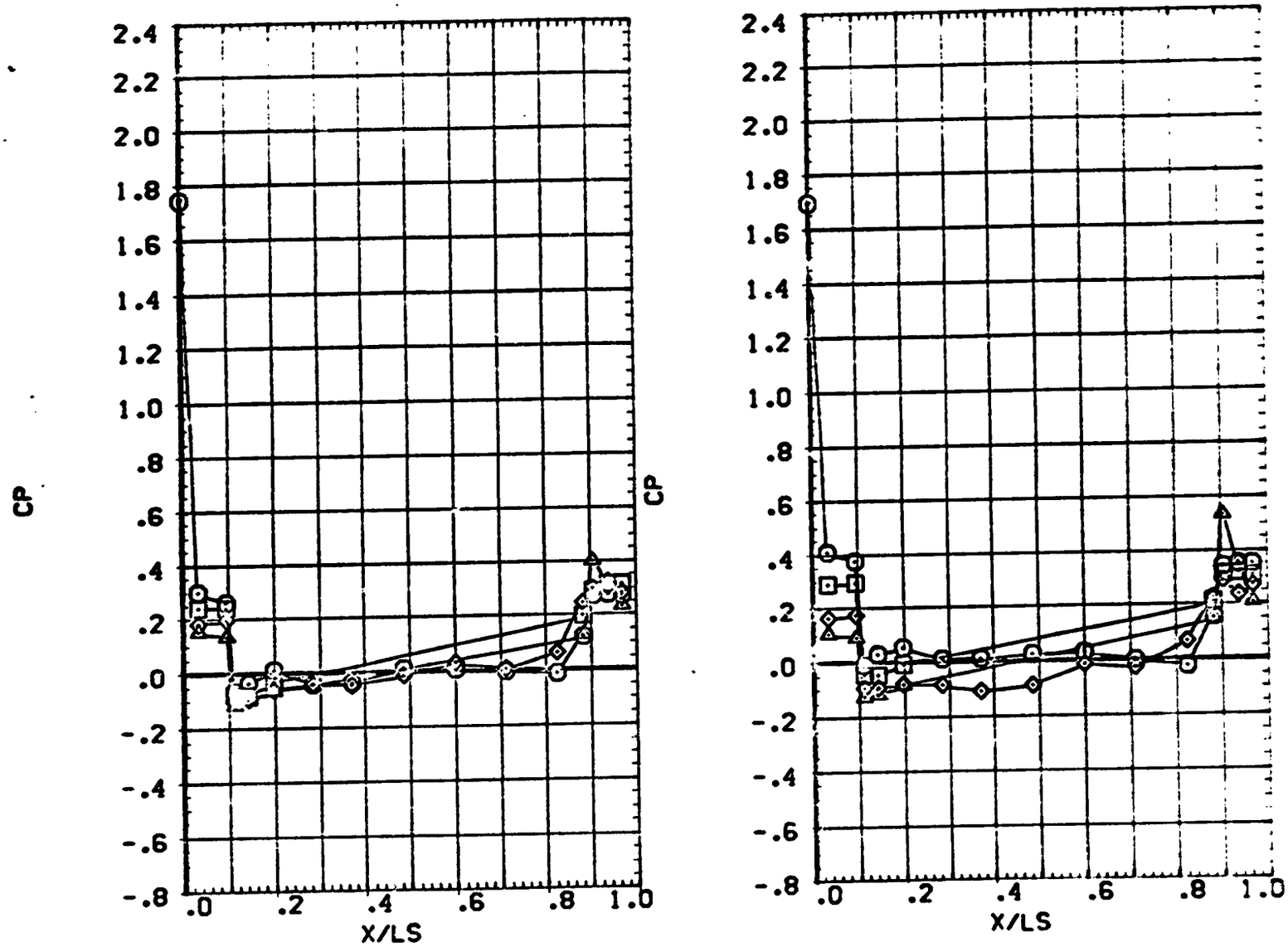
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 SRM BOOSTER (RBNSOL)

SYMBOL	PHI	ALPHA	MACH
○	.000	3.900	2.498
□	45.0000	8.010	
◇	90.0000		
△	135.0000		

PARAMETRIC VALUES

BETAT	.000	DRBINC	.500
RUDDER	.0000	ELEVON	.0000
RUDFLR	.000		



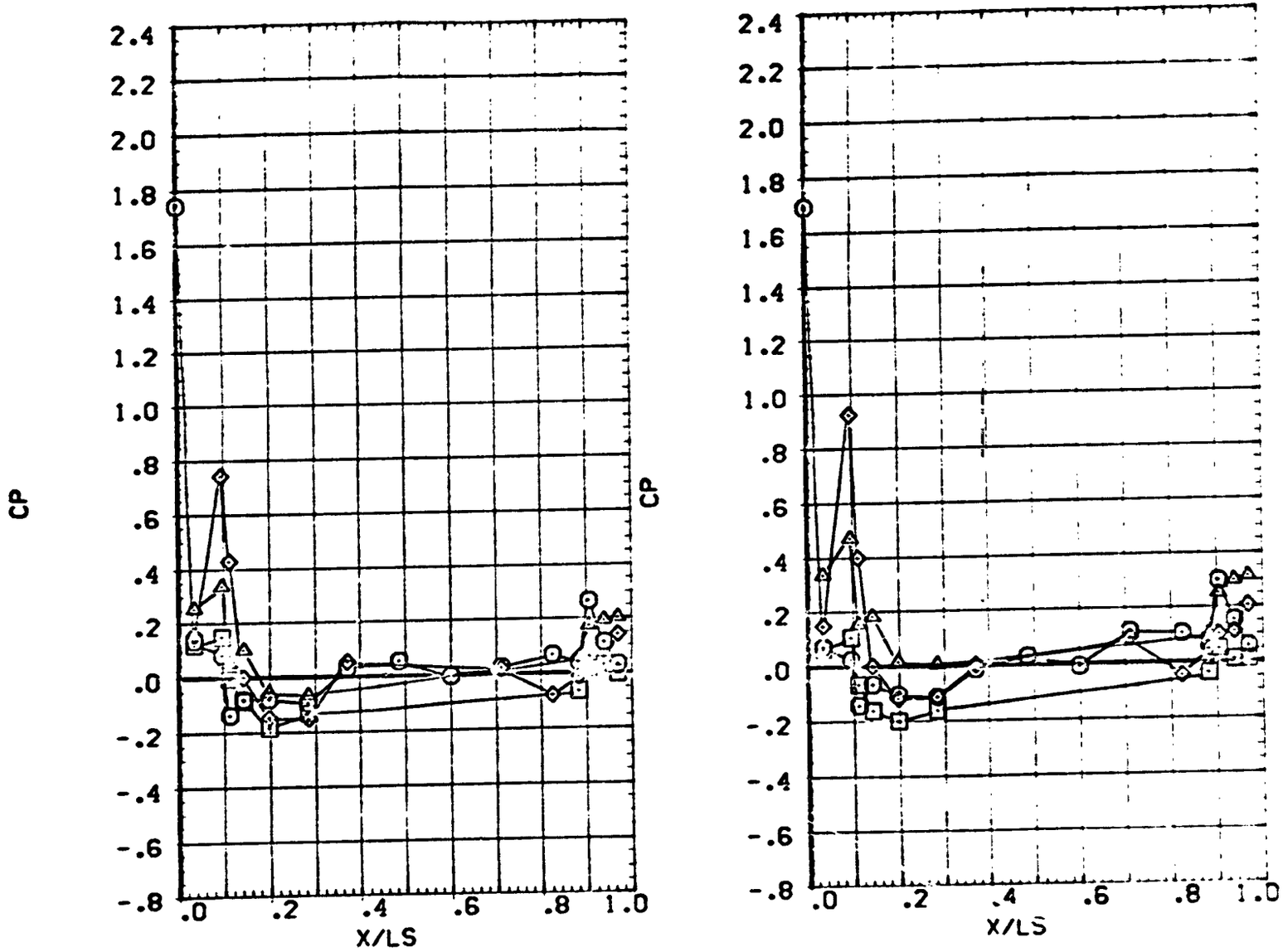
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 IA9 02A - S3 - T9 SRM BOOSTER (RBNSC1)

SYMBOL	PHI	ALPHAT	MACH
○	180.000	3.900	2.498
□	225.000	8.010	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



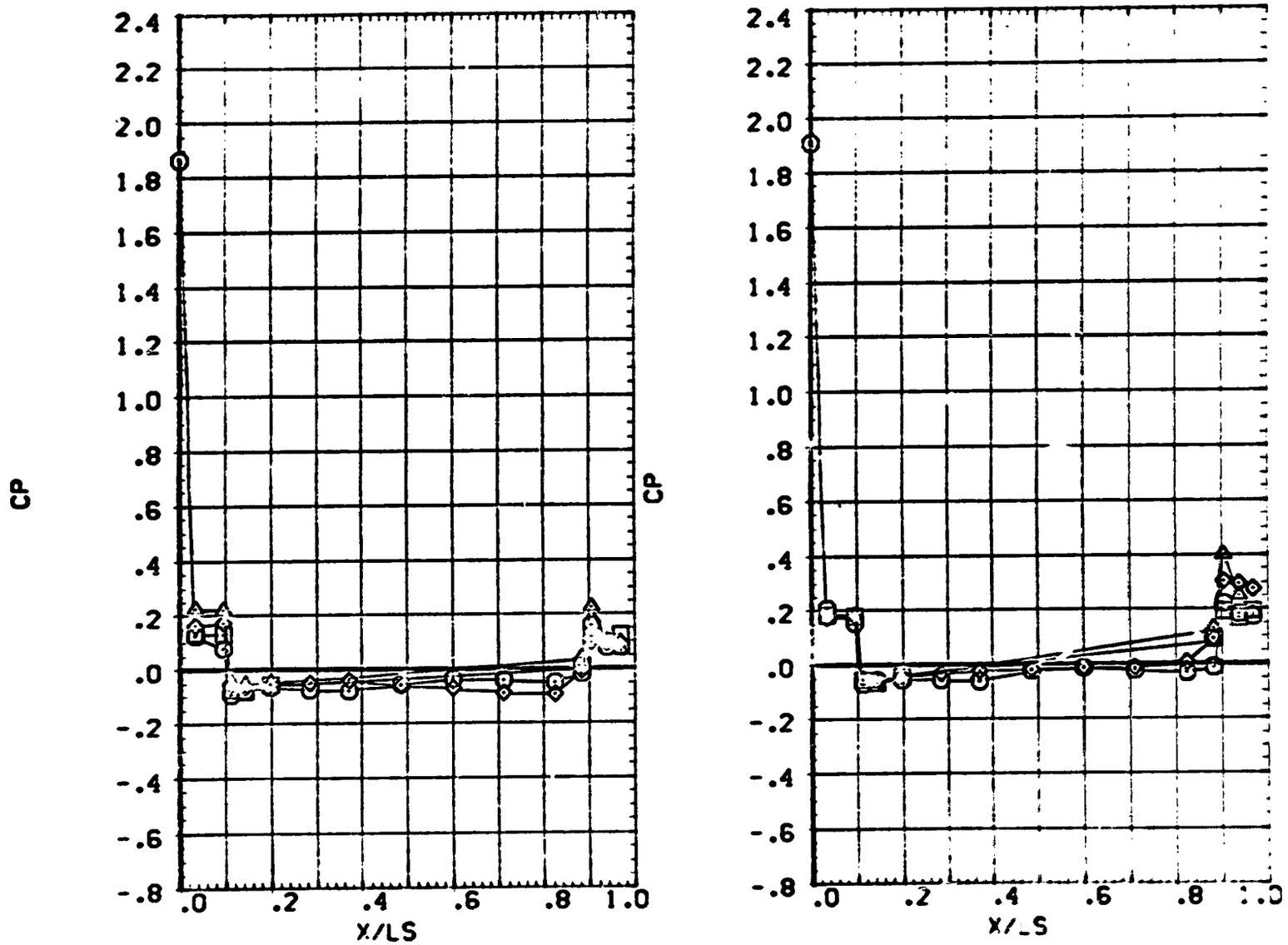
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 (A9 B2A + S3 + T9 SRM BOOSTER (RBNSC))

SYMBOL	PHI	ALPHAT	MACH
	.000	-4.070	2.999
	45.000	-.010	
	90.000		
	135.000		

PARAMETRIC VALUES

BETAT	.000	DELTA	.000
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



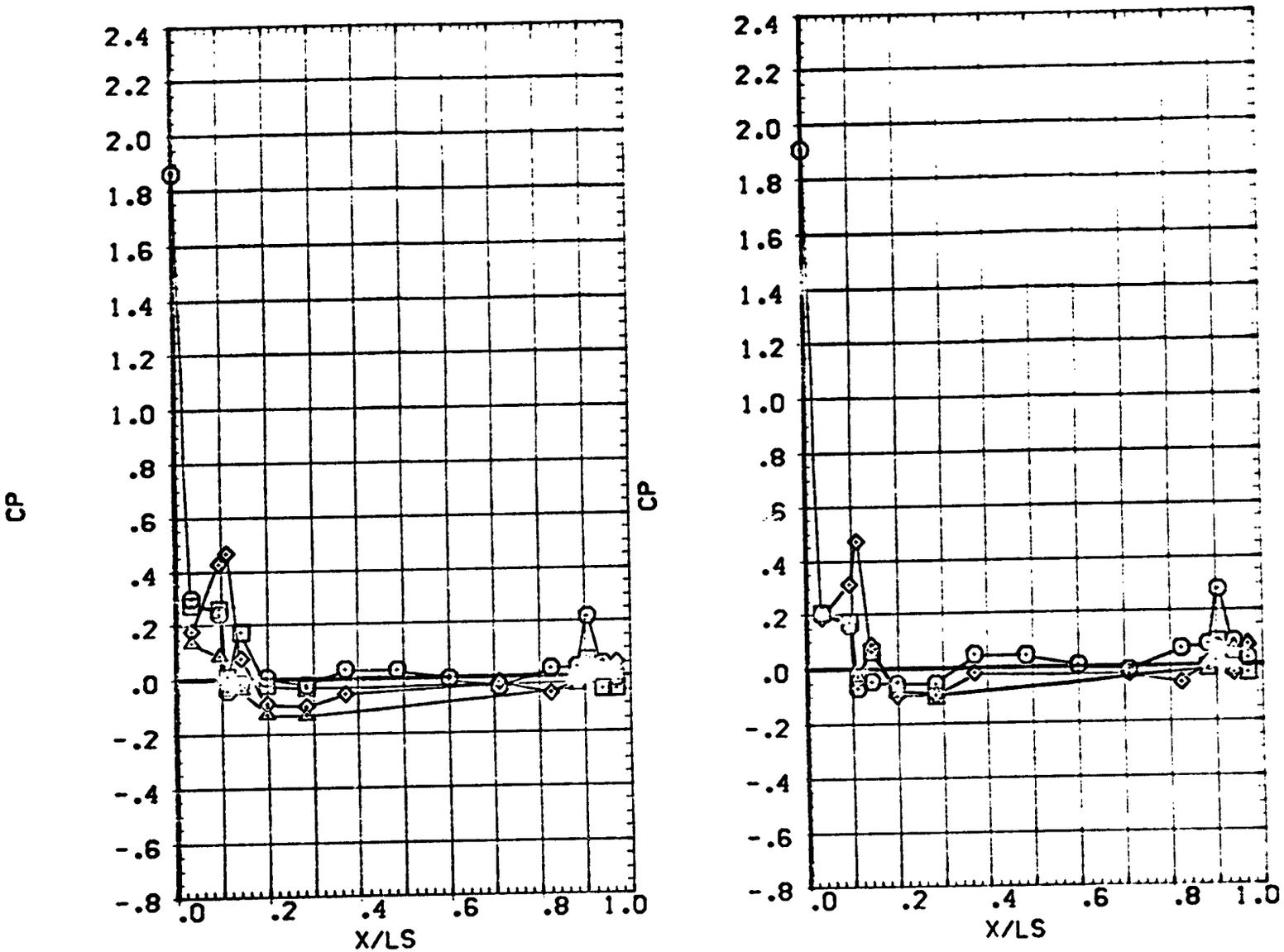
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 IA9 02A - S3 - T9 SRM BOOSTER (RBNS01)

SYMBOL	PHI	ALPHAT	MACH
○	180.000	-4.070	2.999
□	225.000	-.010	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



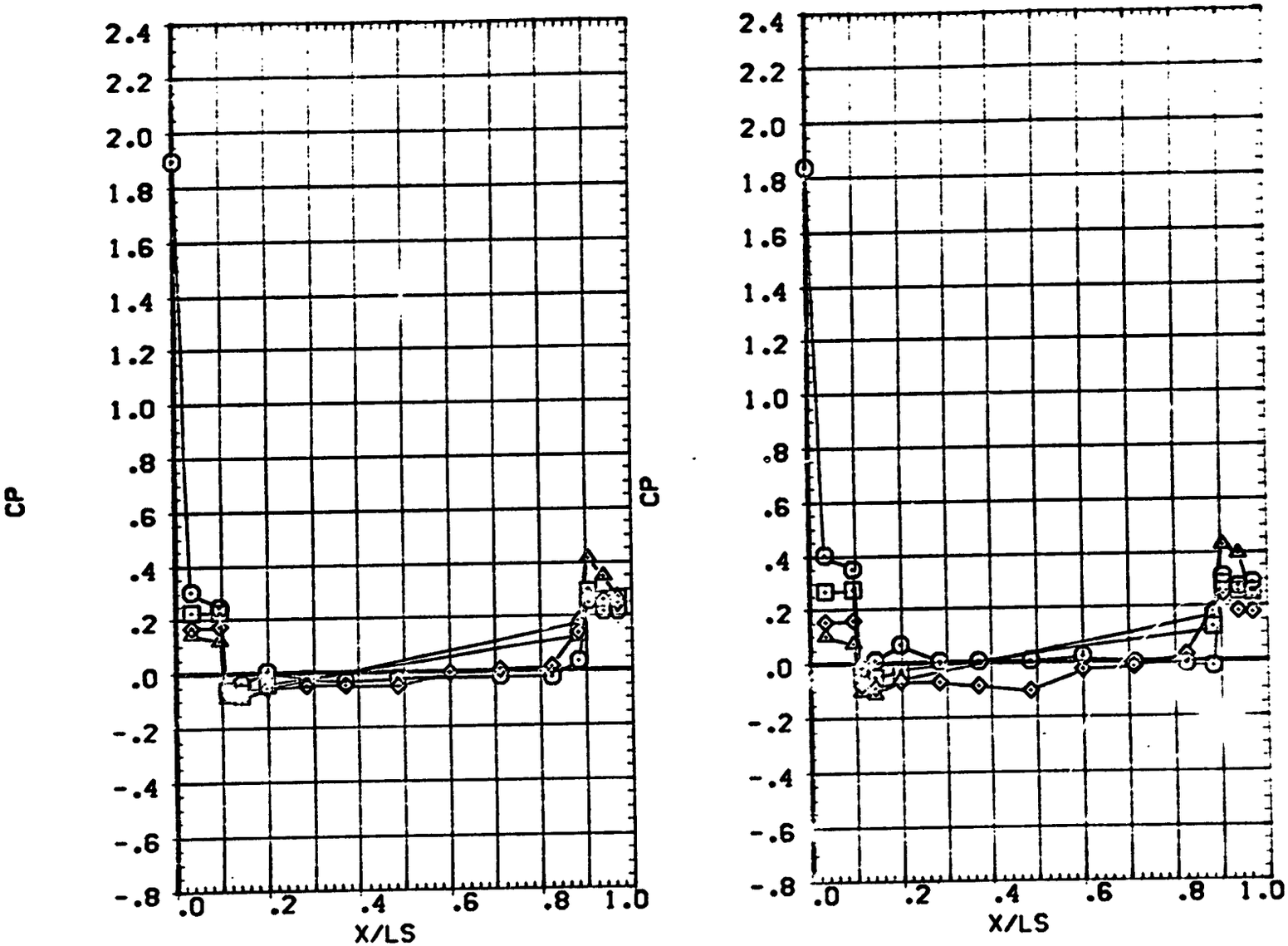
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AYES 87-707 IA8 C2A + S3 + T8 SRM BOOSTER (RBNSC1)

SYMBOL	PHI	ALPHAT	MACH
○	.000	3.960	2.999
□	15.000	8.000	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROLLR	.000		



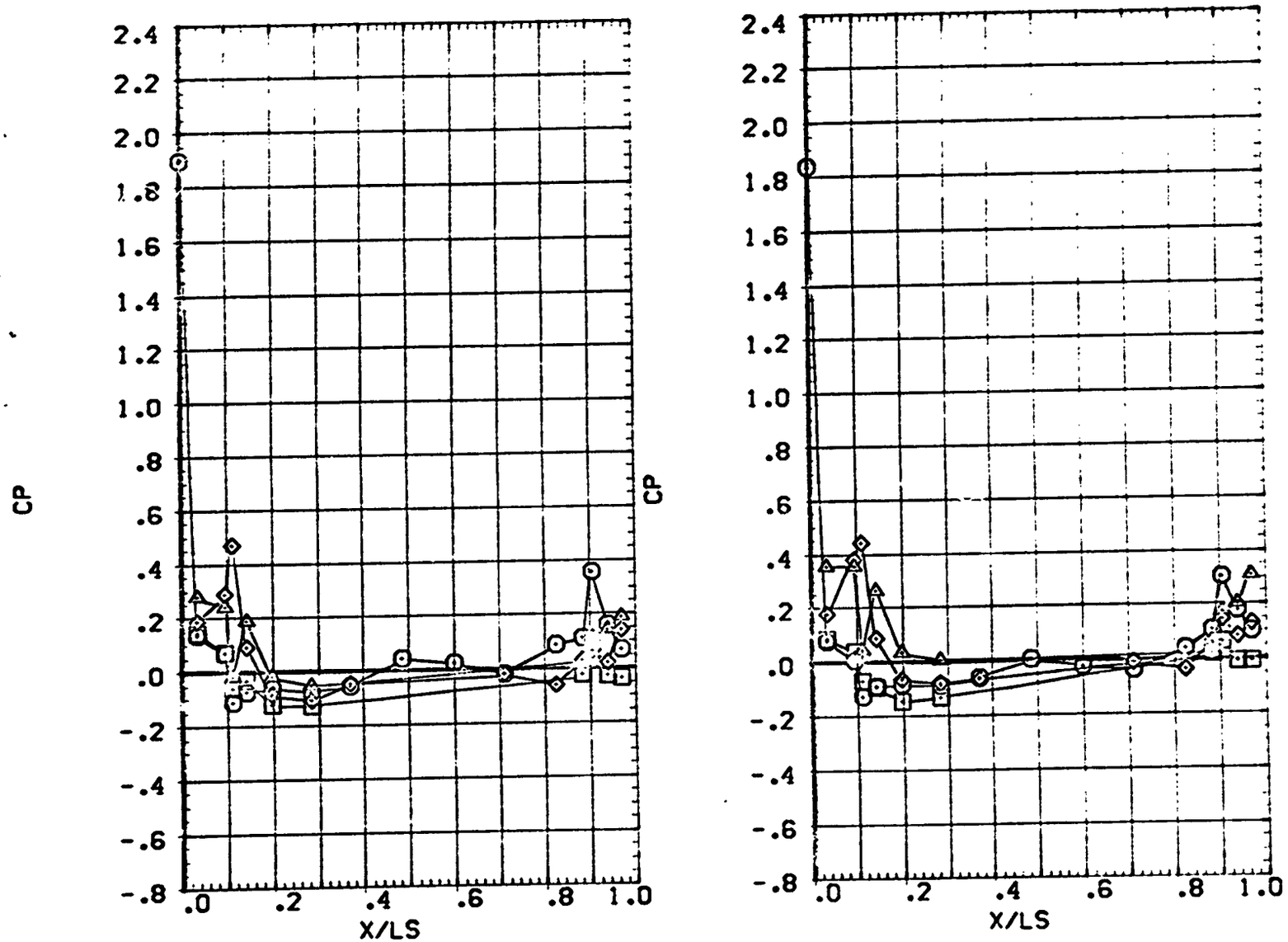
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 IA9 22A + S3 + T9 SRM BOOSTER

SYMBOL	PHI	ALPHAT	MACH
○	180.000	3.950	2.999
□	225.000	8.000	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

BETAT	.000	ORBIND	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



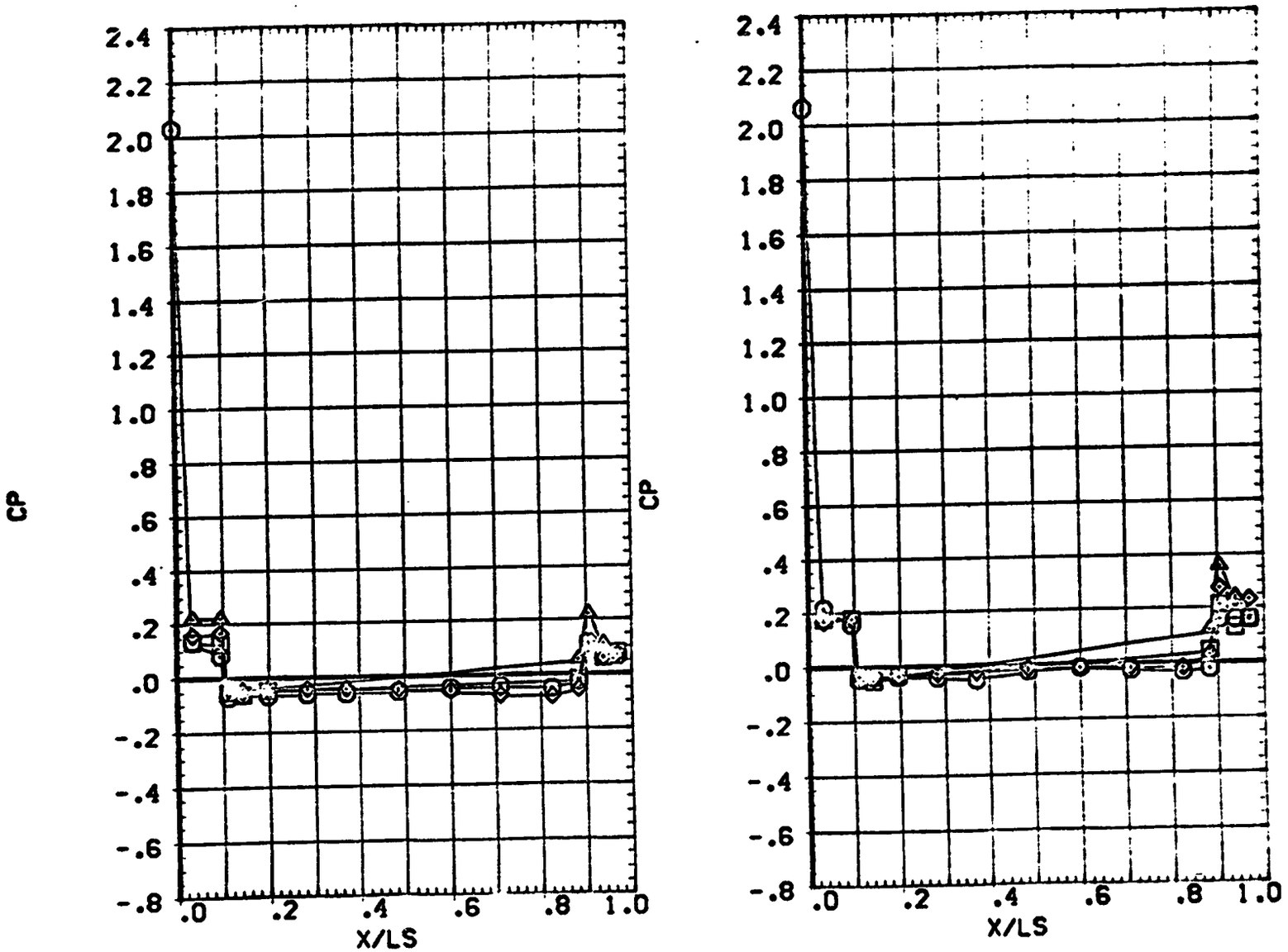
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 SRM BOOSTER (RBNSC:)

SYMBOL	PHI	ALPHAT	MACH
○	.000	-4.070	3.502
◇	45.000	-.030	
□	90.000		
△	135.000		

PARAMETRIC VALUES

BETAT	.000	DRIVNC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



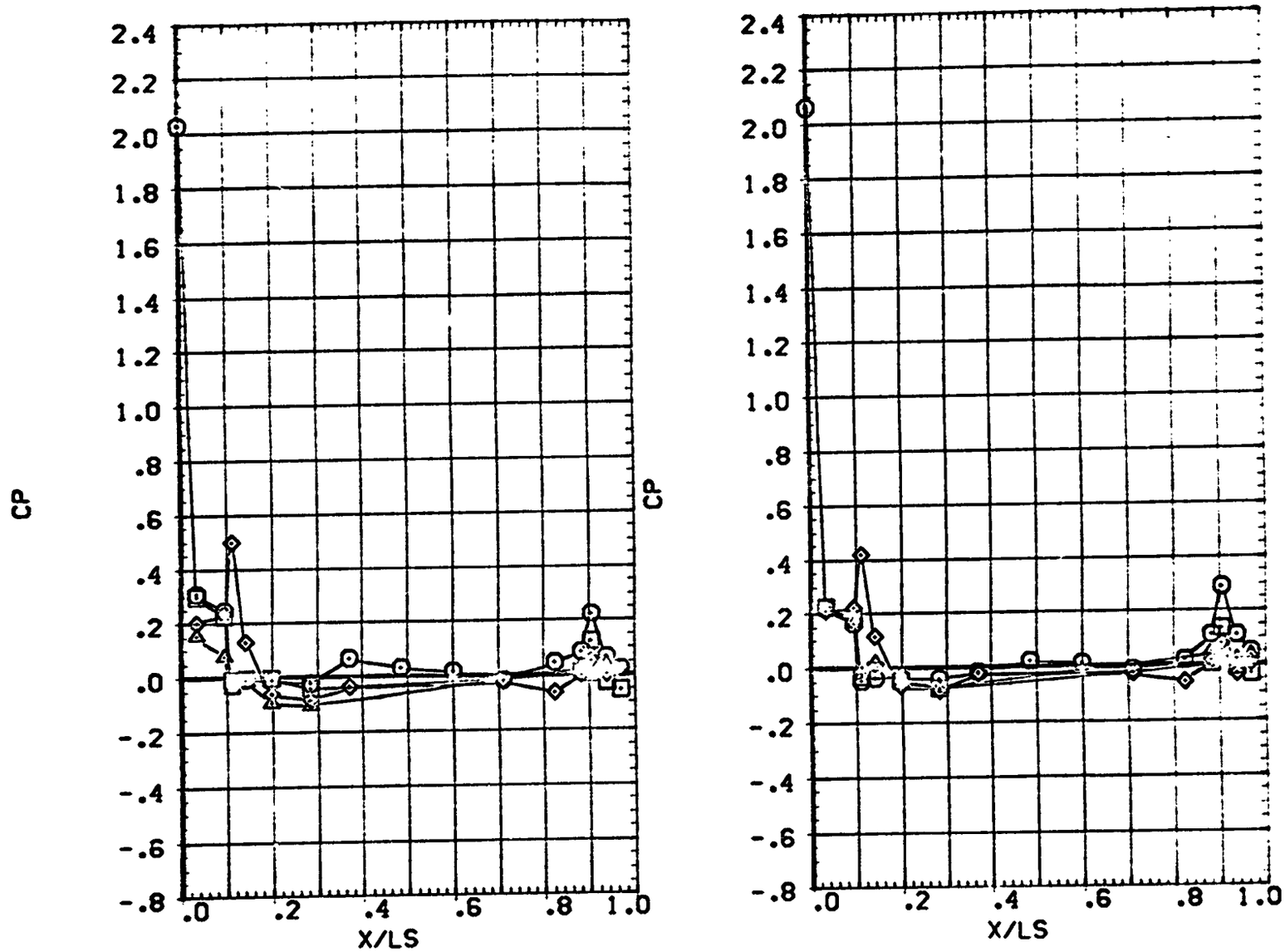
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 :AS C2A + S3 + T8 SRM BOOSTER (RBNSC1)

SYMBOL	PHI	ALPHA	MACH
◇	180.000	-4.570	3.502
□	225.000	-.030	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

BETAT	.000	BODY	.000
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



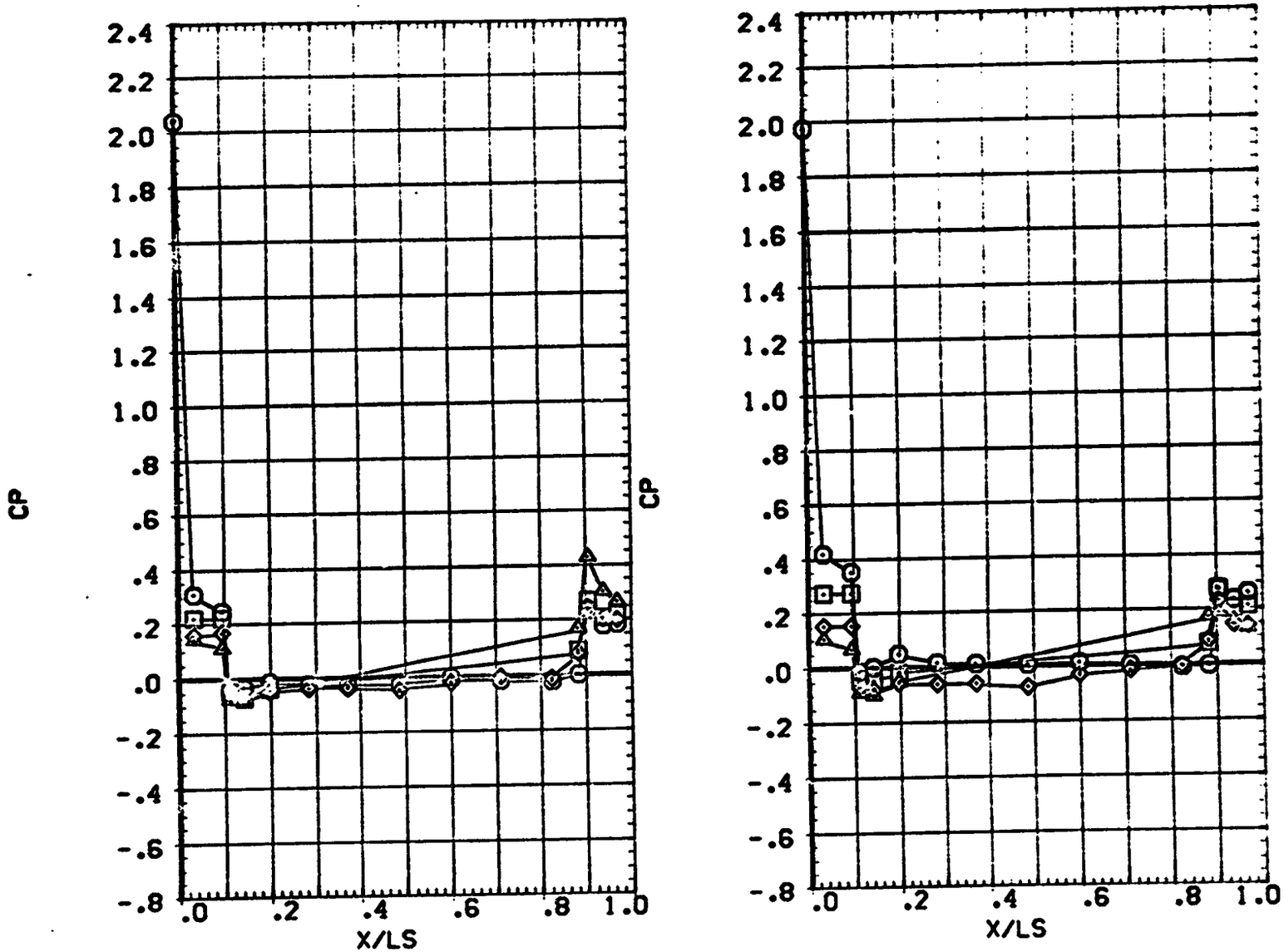
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 (A9 C2A - S3 + T9 SRM BOOSTER (RBNSC))

SYMBOL	PHI	ALPHAT	MACH
○	.000	3.960	3.502
◇	45.000	8.010	
□	90.000		
△	135.000		

PARAMETRIC VALUES

BETA	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROLLR	.000		



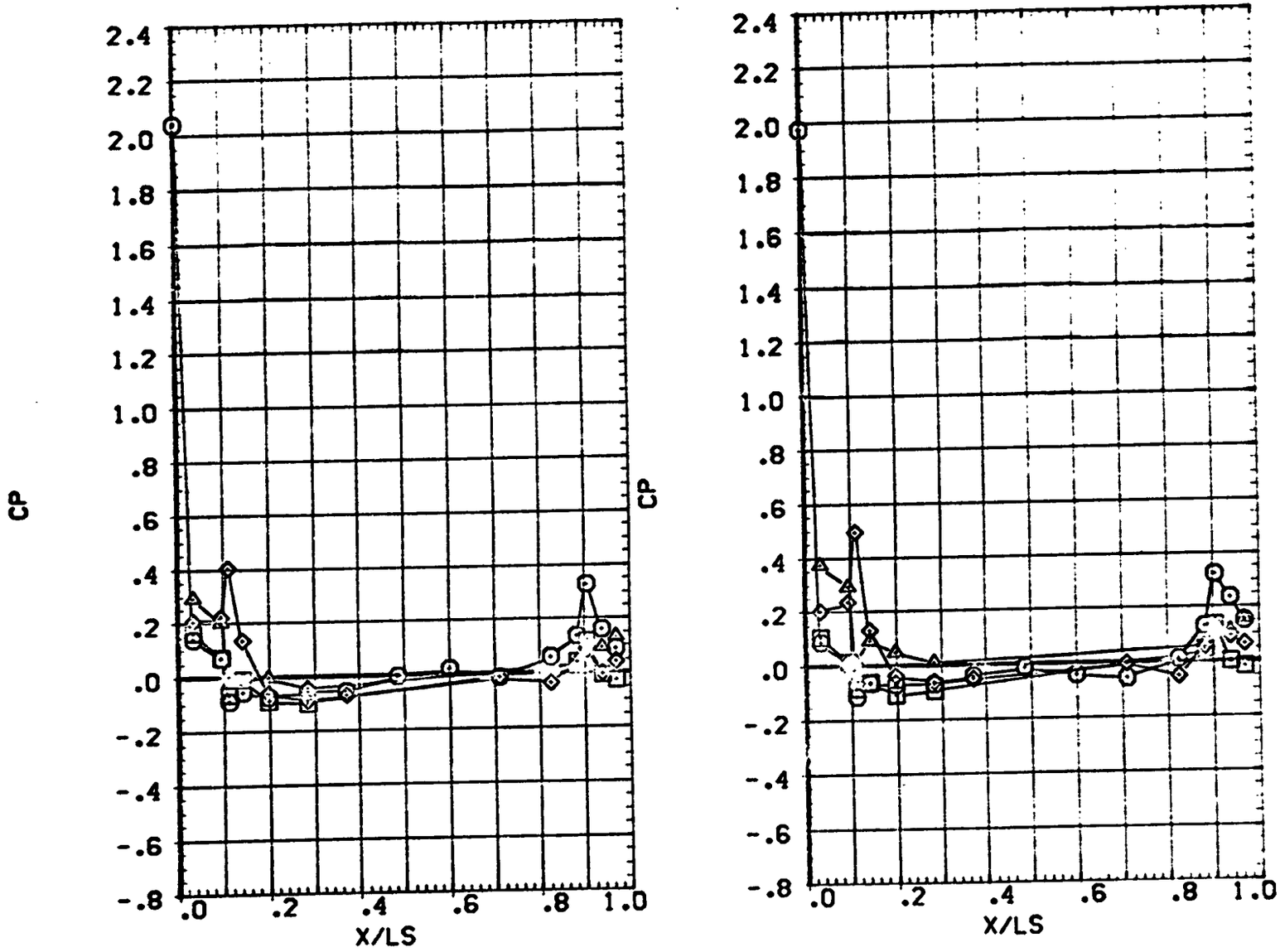
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 SRM BOOSTER (RBNSC1)

SYMBOL	PHI	ALPHAT	MACH
○	180.0000	3.960	3.502
⊠	225.0000	8.010	
◇	270.0000		
△	315.0000		

PARAMETRIC VALUES

BETAT	.000	DBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



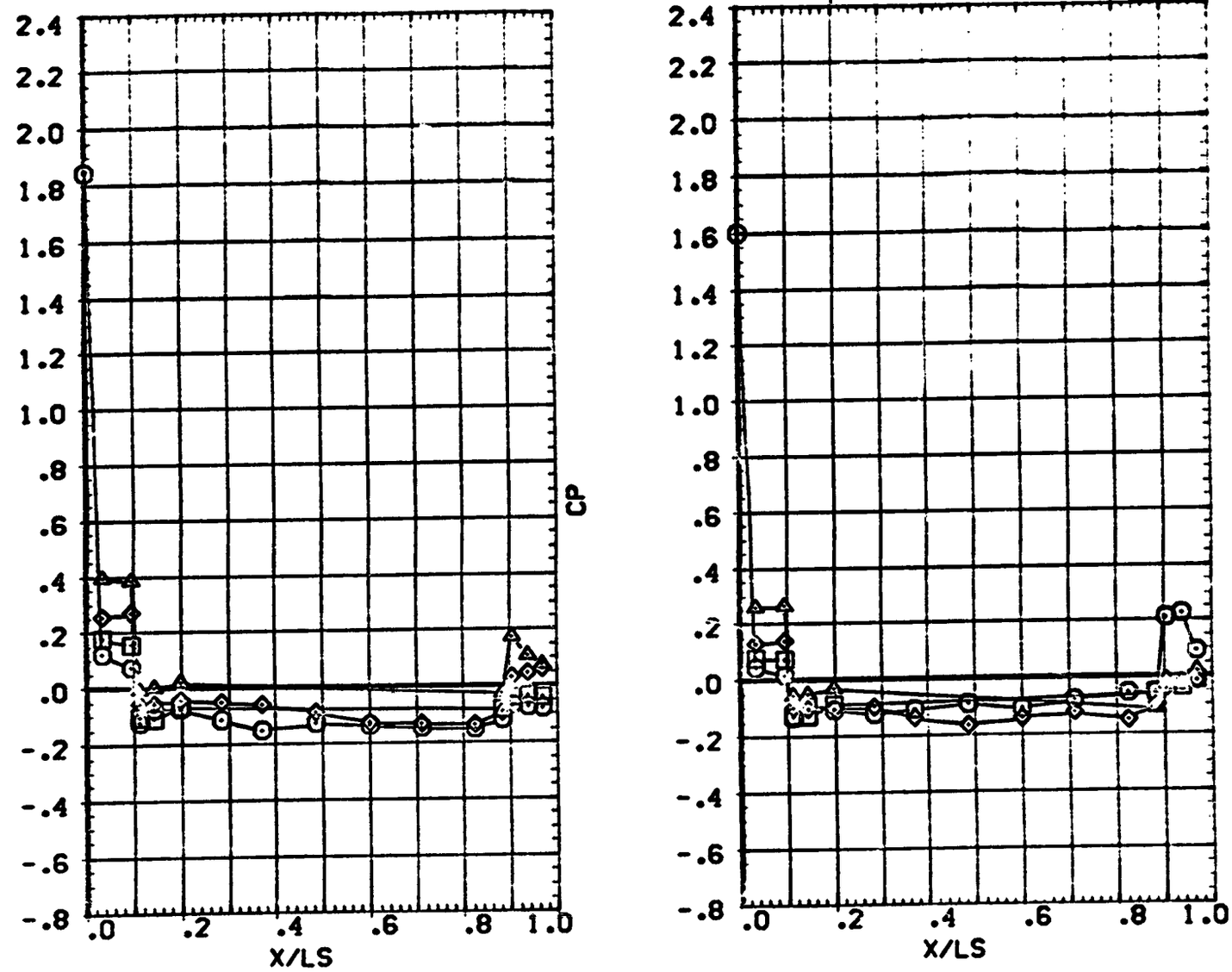
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 87-707 IA9 C2A + S3 + 79 SRM BOOSTER (RBNSC2)

SYMBOL	PHI	BETA	MACH
	.000	-4.170	2.498
	45.000	2.180	
	90.000		
	135.000		

PARAMETRIC VALUES

ALPHA	-8.000	SPOILER	.500
RUDDER	.000	ELEVON	.000
ROLLER	.000		



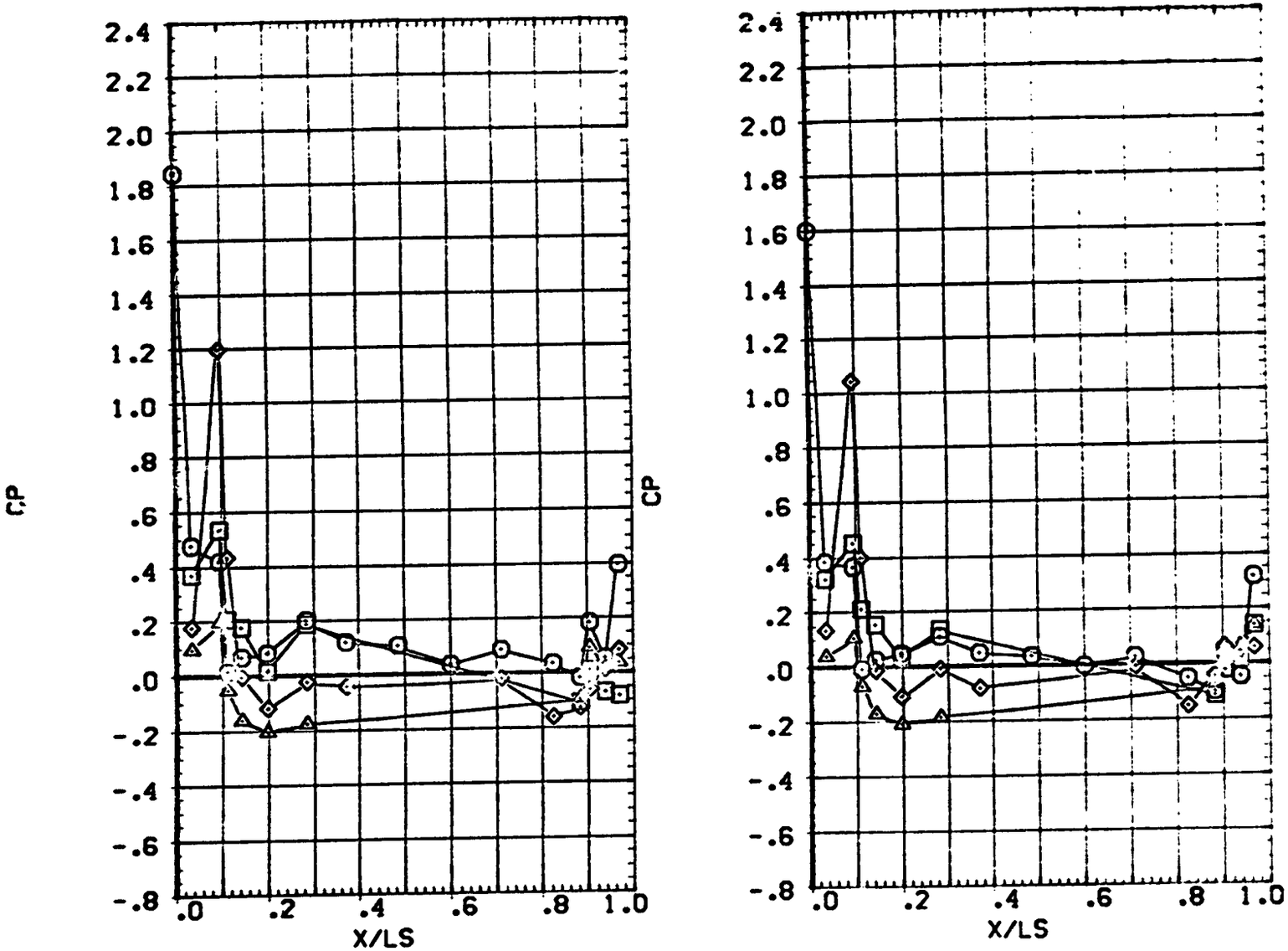
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 (A9 C2A + S3 + T9 SRM BOOSTER (RBNSO2)

SYMBOL	PHI	BETAT	MACH
○	180.0000	-4.170	2.498
□	225.0000	2.180	
◇	270.0000		
△	315.0000		

PARAMETRIC VALUES

ALPHAT	-8.0000	SYNC	.0000
RUDDER	.0000	ELEVN	.0000
RUDFLR	.0000		



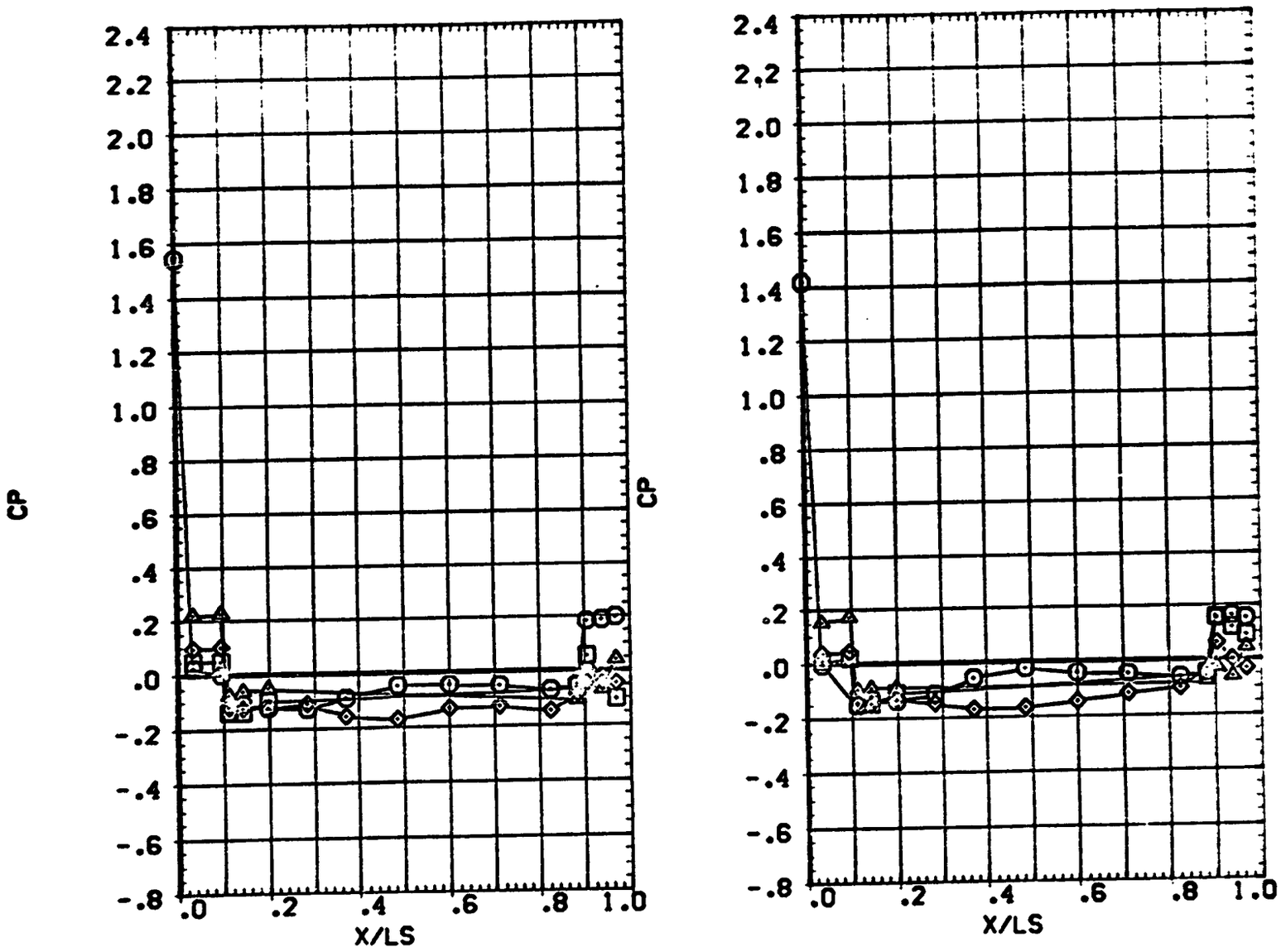
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 SRM BOOSTER (RBNS02)

SYMBOL	PHI	BETA	MACH
	.000	4.320	2.498
	45.000	8.590	
	90.000		
	135.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



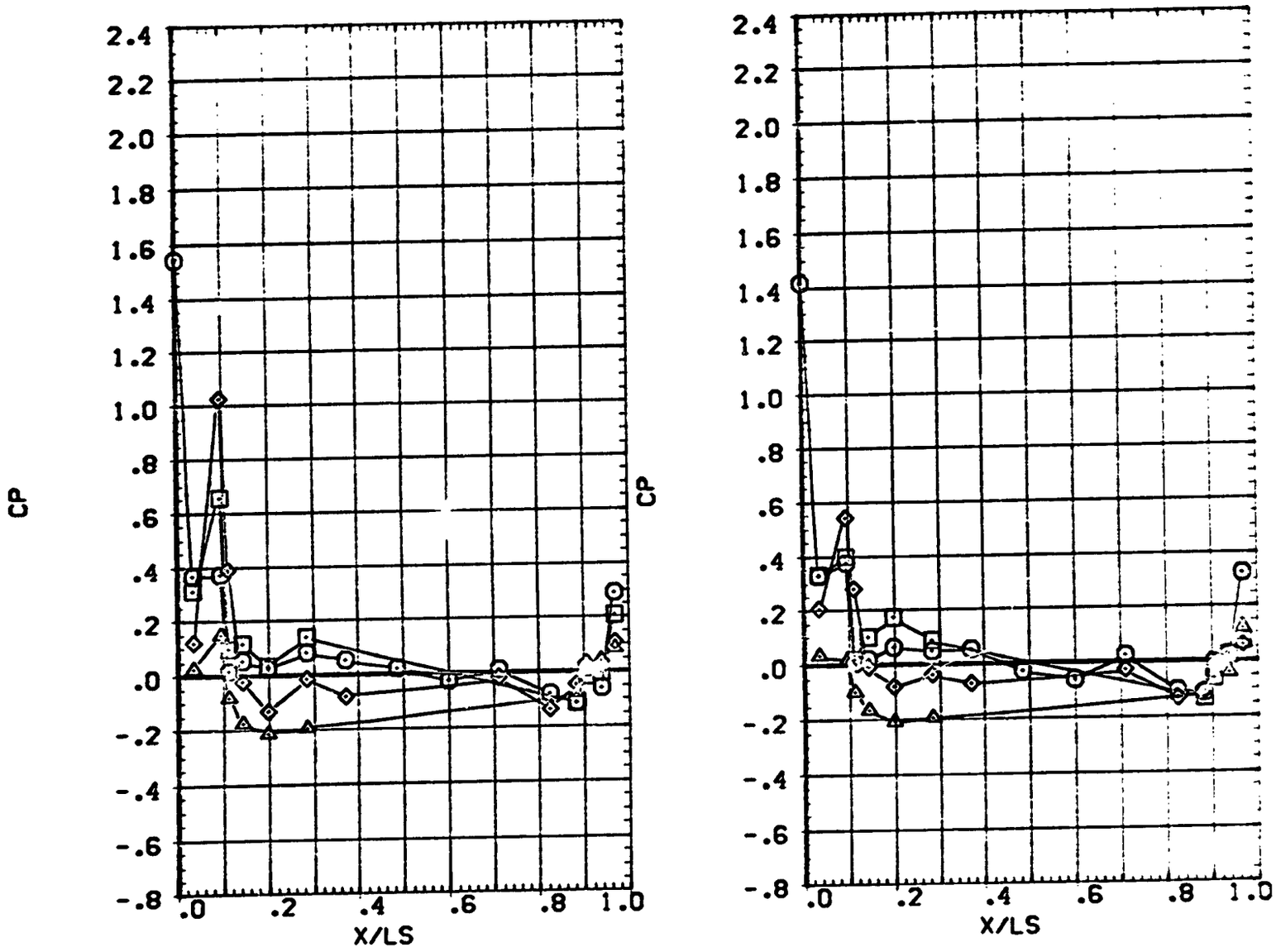
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 87-707 IA9 C2A + S3 + T9 SRM BOOSTER (RBNS02)

SYMBOL	PHI	BETA	MACH
○	180.000	4.320	2.498
□	225.000	8.580	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



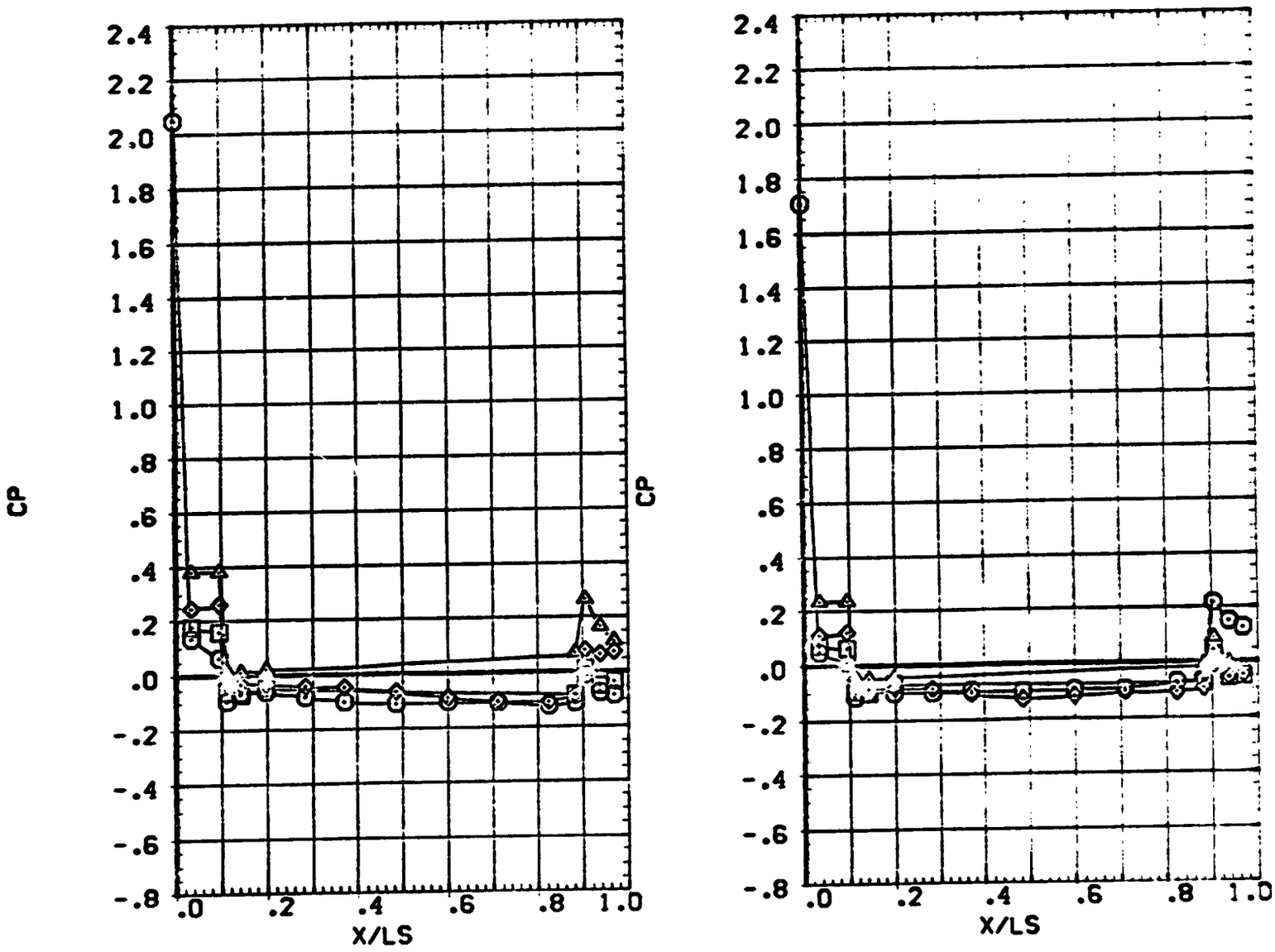
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 IA9 02A - S3 - T9 SRM BOOSTER (RBNSC2)

SYMBOL	PHI	BETAT	MACH
	.000	-4.250	2.999
	45.000	2.730	
	90.000		
	135.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



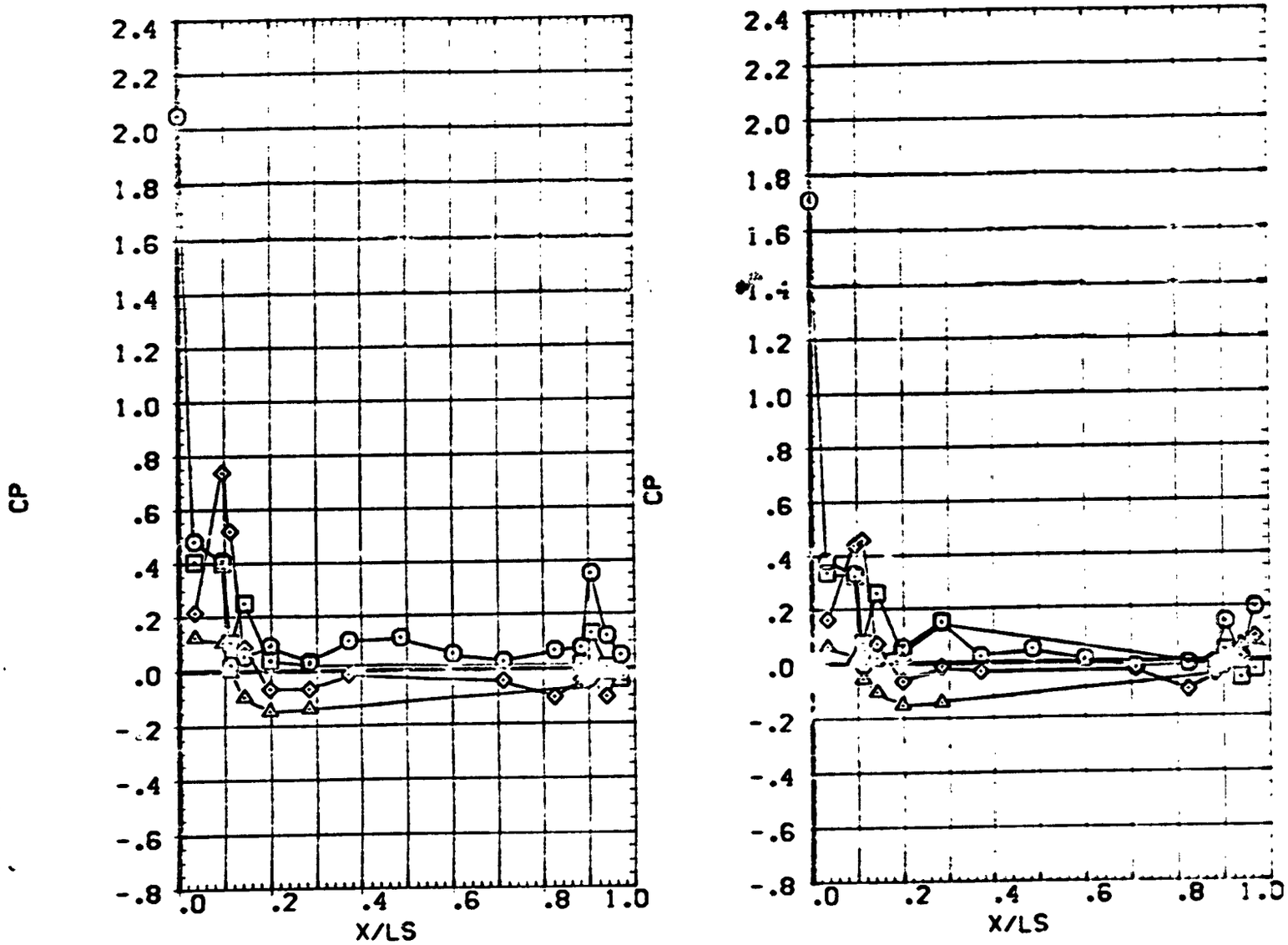
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 IA9 C2A - S3 + T9 SRM BOOSTER (RB\SC2)

SYMBOL	PHI	BETAT	MACH
	180.000	-4.760	2.999
	270.000	7.230	
	270.000		
	315.000		

PARAMETRIC VALUES

ALPHAT	-8.000	SPOINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



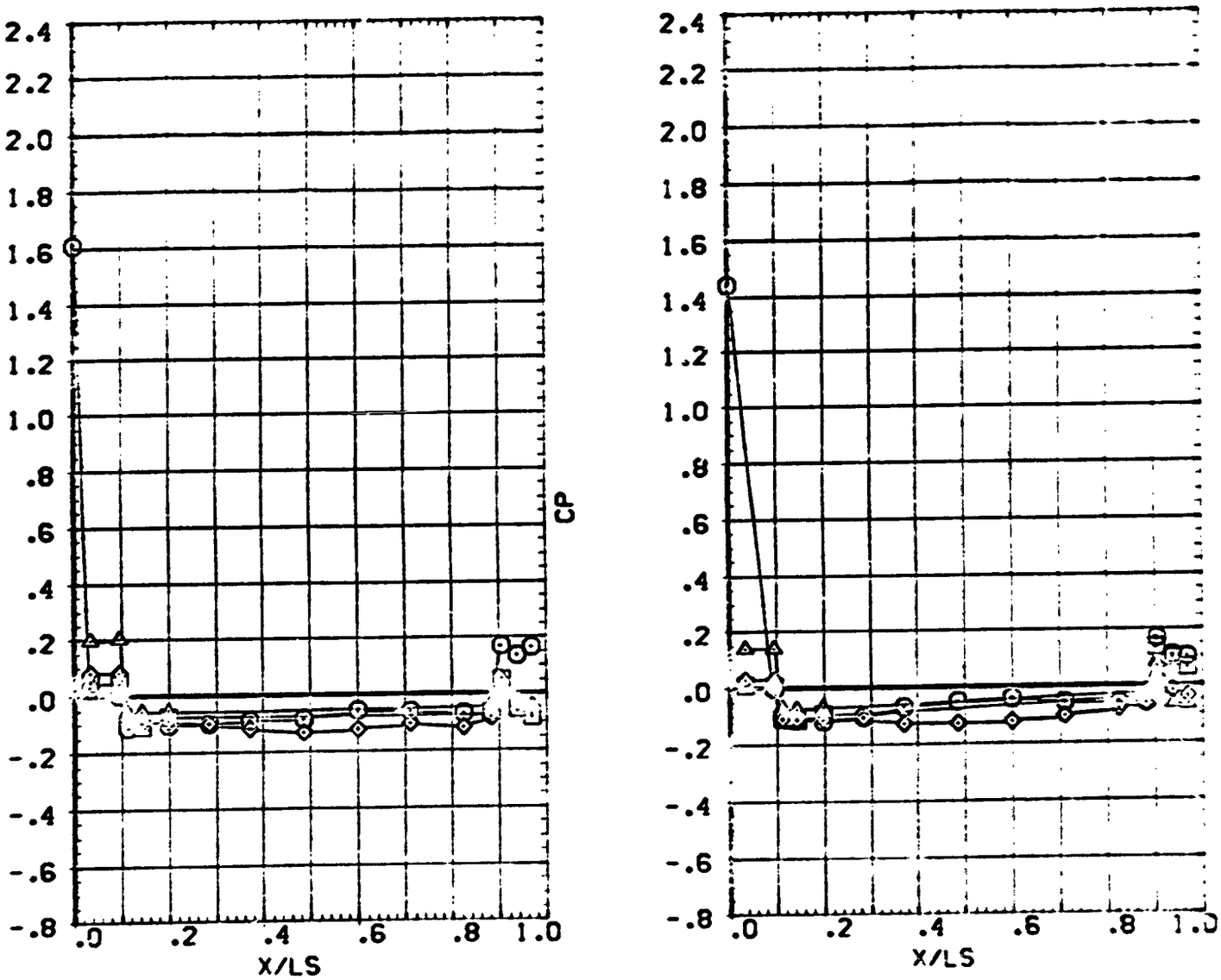
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 IA9 02A - S3 - T9 SRM BOOSTER (RBNS02)

SYMBOL	PHI	BETAT	MACH
○	.000	4.400	2.999
□	45.000	8.750	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBIN	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

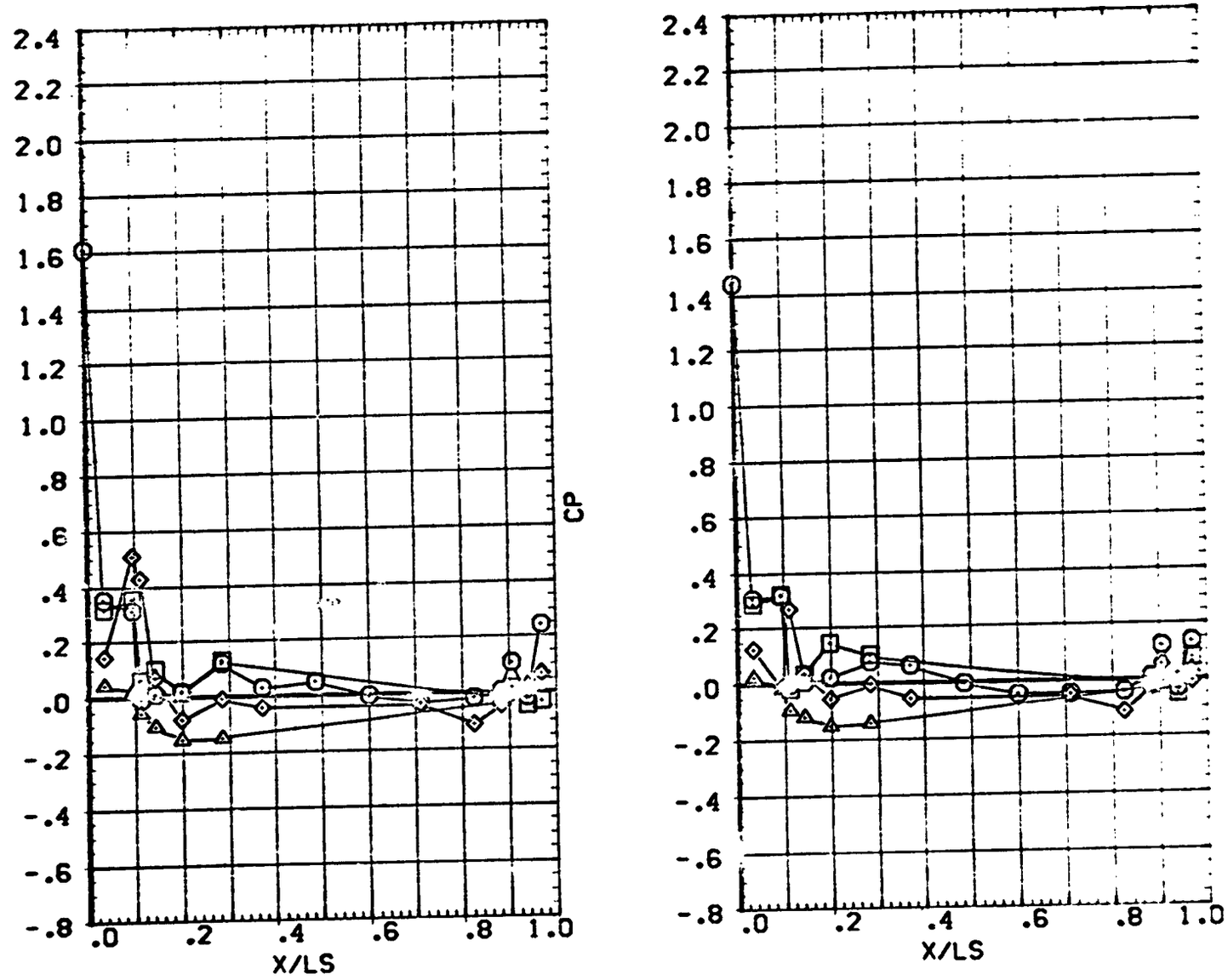


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

SYMBOL	PHI	BETA	MACH
○	180.000	4.400	2.999
□	225.000	8.750	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHA	-8.000	[illegible]	.000
RUDDER	.000	ELEVON	.000
RUDDLR	.000		



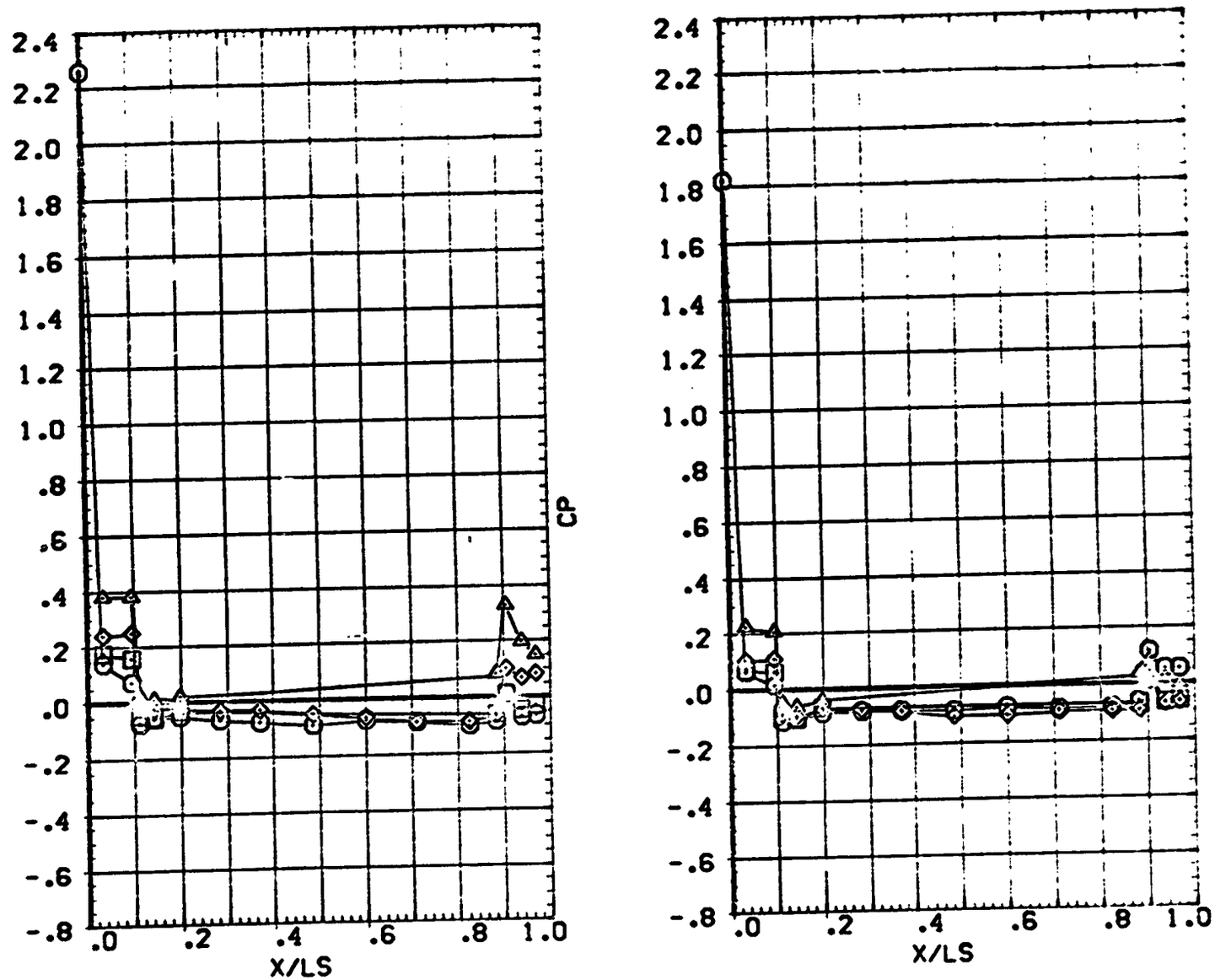
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 87-707 :A8 C2A - S3 - '8 SRV BOOSTER (RB\SC2)

SYMBOL	PHI	BETAT	MACH
	.000	-4.330	3.502
	45.000	2.260	
	90.000		
	135.000		

PARAMETRIC VALUES

ALPHAT	-8.000	DOBINC	.500
RUDDER	.000	ELEVON	.000
ROLL	.000		



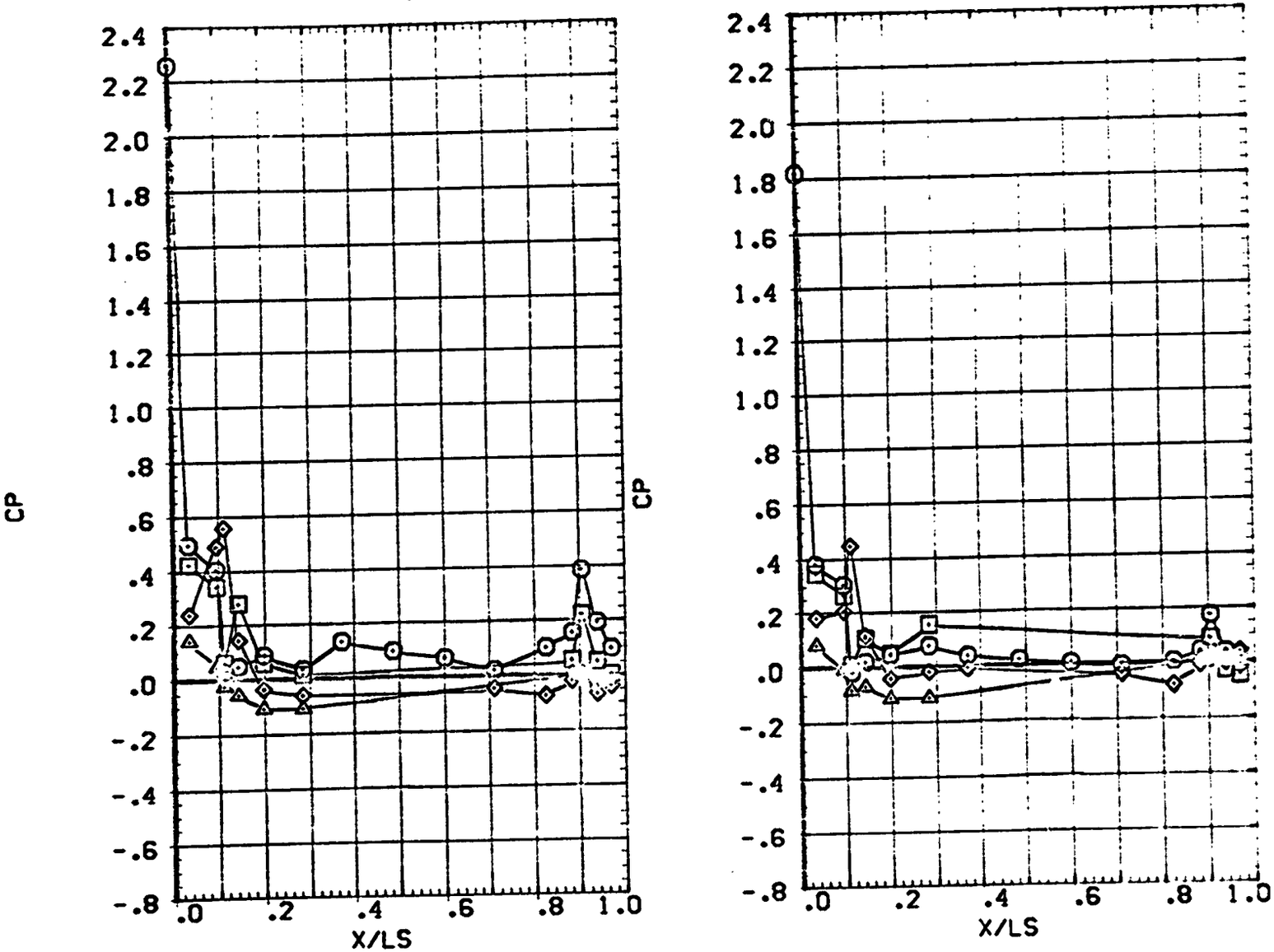
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 IA9 02A - S3 - '9 SRM BOOSTER (RB\SC2)

SYMBOL	PHI	BETA	MACH
	180.000	-4.330	3.502
	225.000	2.760	
	270.000		
	315.000		

PARAMETRIC VALUES

ALPHA	-8.000	DBINC	.500
RUDDER	.000	ELEVON	.000
ROLL	.000		



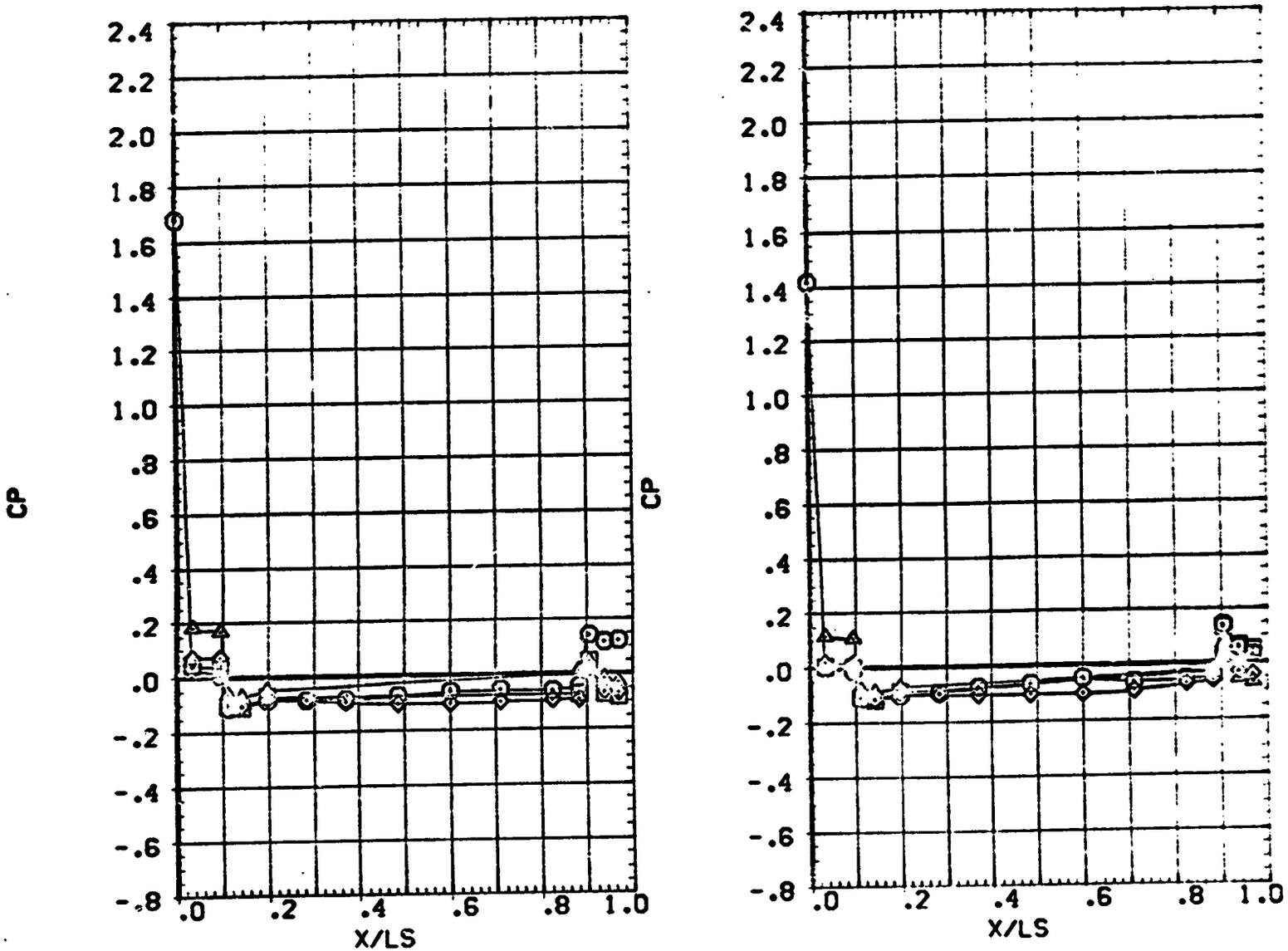
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 87-707.1A8 C2A + S3 + T8 SRM BOOSTER (RBNSC2)

SYMBOL	PHI	BETA	MACH
○	.000	4.480	3.500
□	45.000	8.910	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-8.000	BODYNC	.500
RUDDER	.000	ELEVON	.000
RUDDLR	.000		



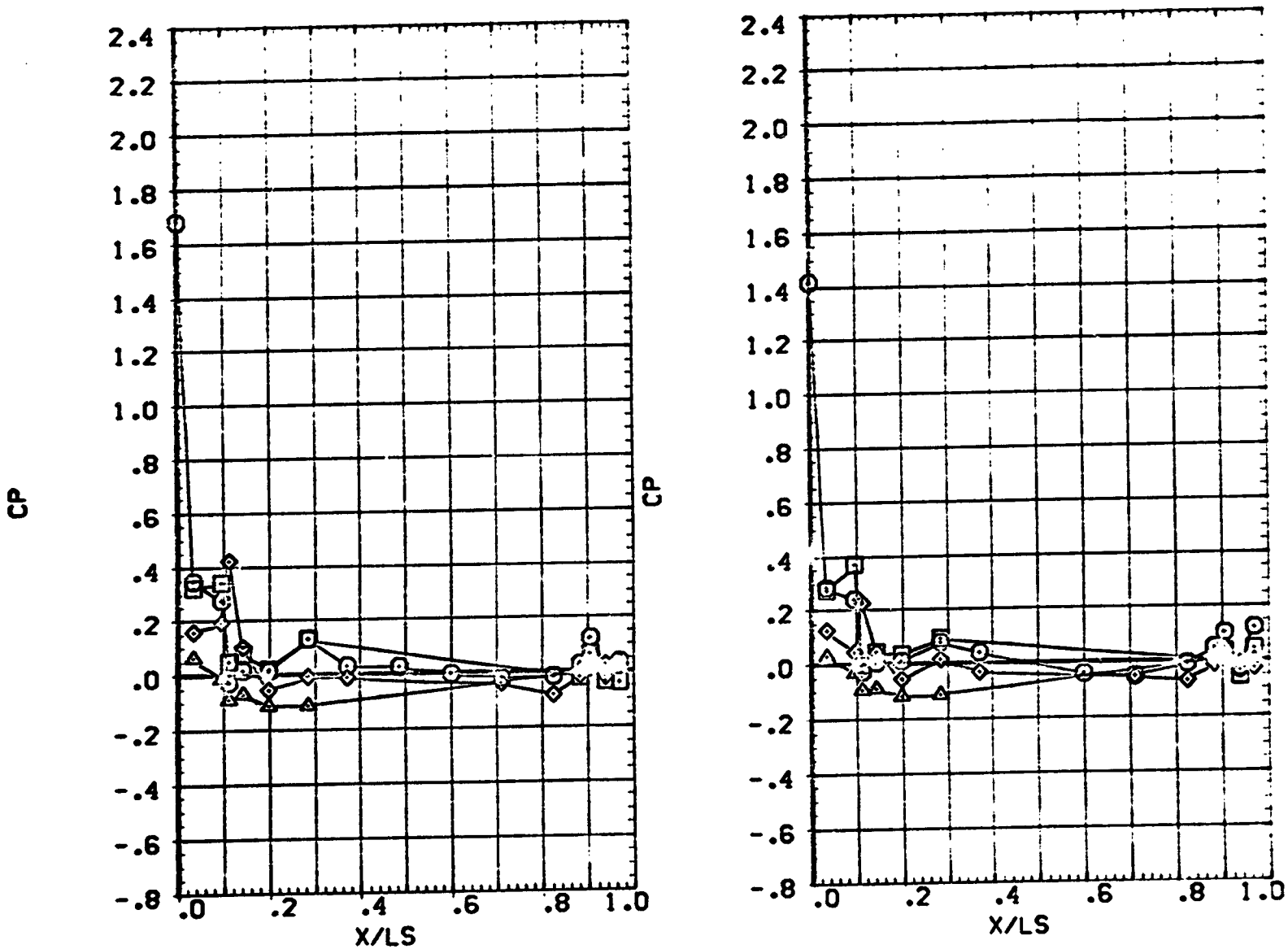
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 IA9 02A - S3 - T9 SRM BOOSTER (RBNSC2)

SYMBOL	PHI	BETAT	MACH
	180.000	4.480	3.502
	225.000	8.910	
	270.000		
	315.000		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



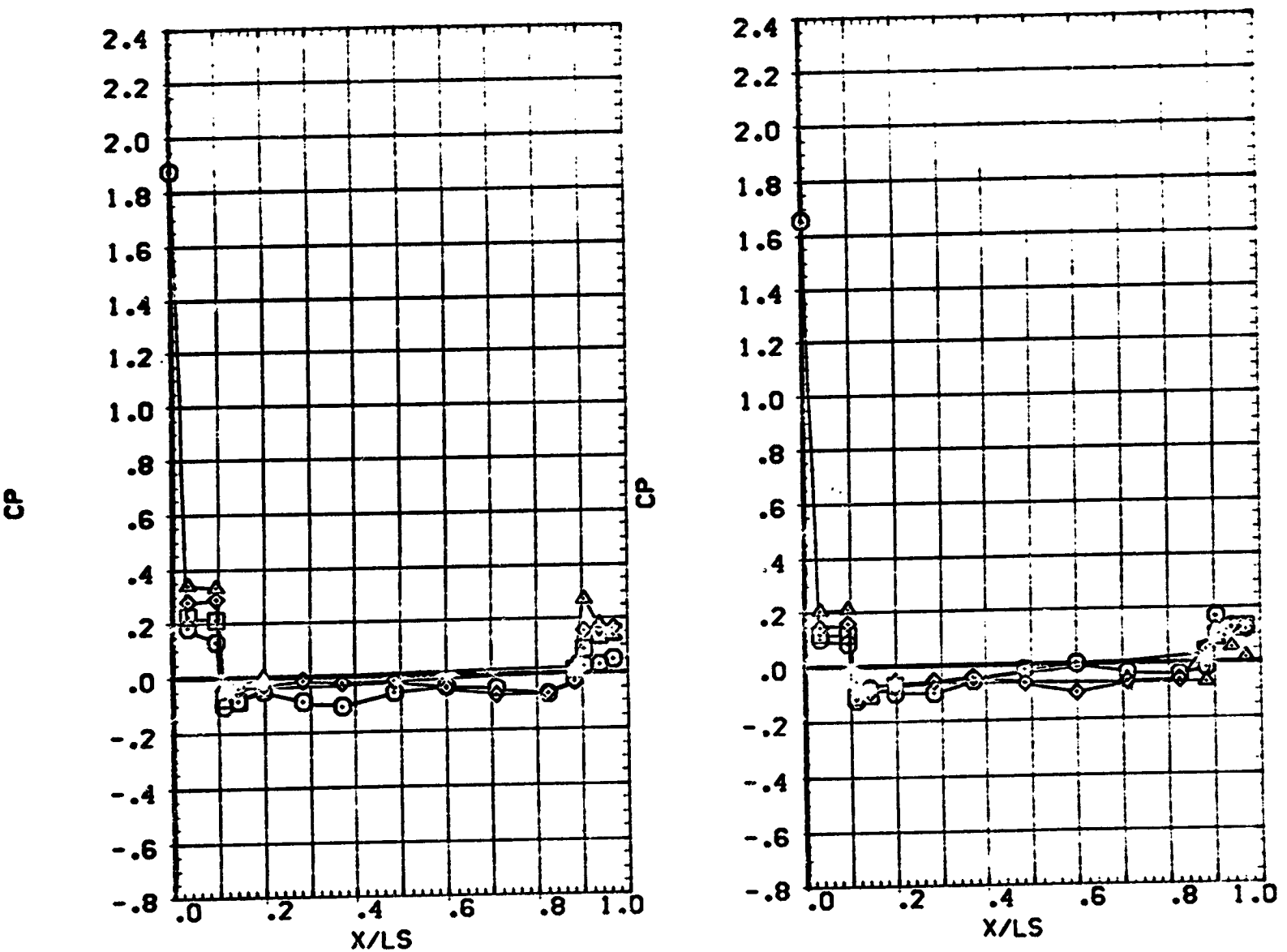
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 87-707 :A9 C2A - S3 - T9 SRM BOOSTER (RB\SC4)

SYMBOL	PHI	BETA	MACH
	.000	-4.190	2.498
	45.000	2.180	
	90.000		
	135.000		

DIAMETRIC VALUES

ALPHA	-4.000	BODY	.500
RUDDER	.000	ELEVON	.000
AILERON	.000		



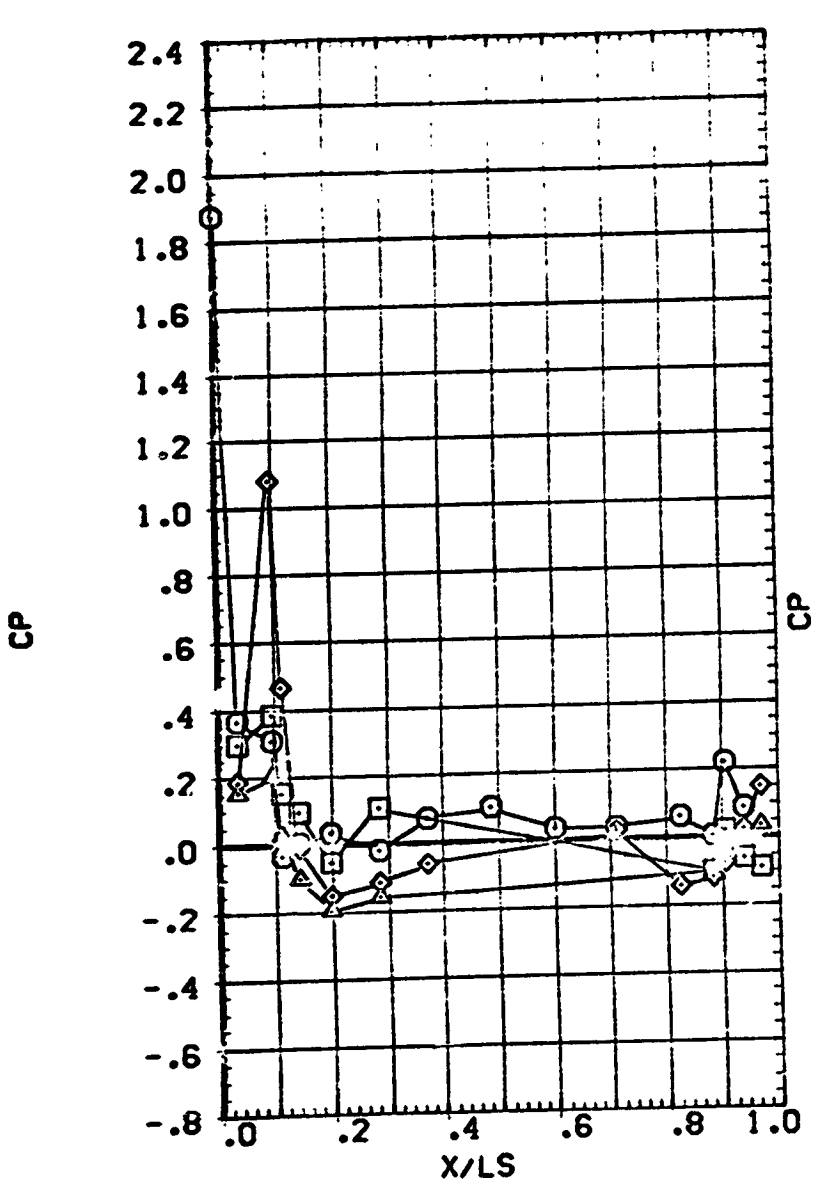
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

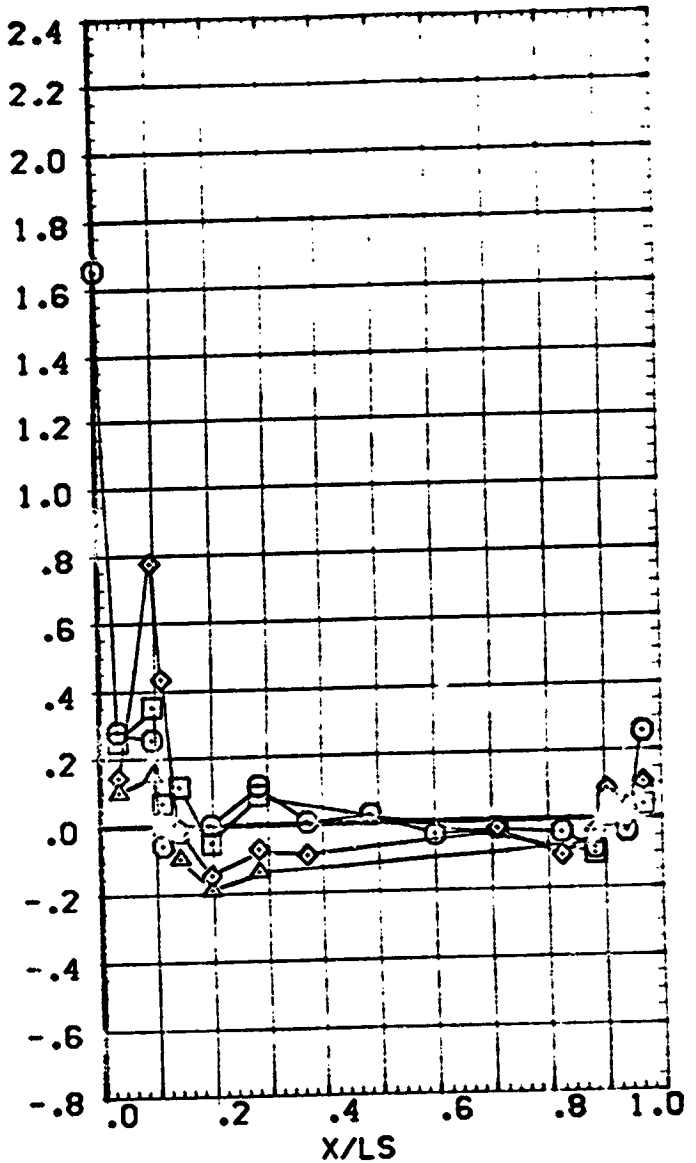
AVES 87-707 :A9 C2A - S3 + T9 SRM BOOSTER (RBNSC4)

SYMBOL	PHI	BETA	MACH
○	180.000	-4.180	2.498
□	225.000	2.180	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHA	-4.000	DBNC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		





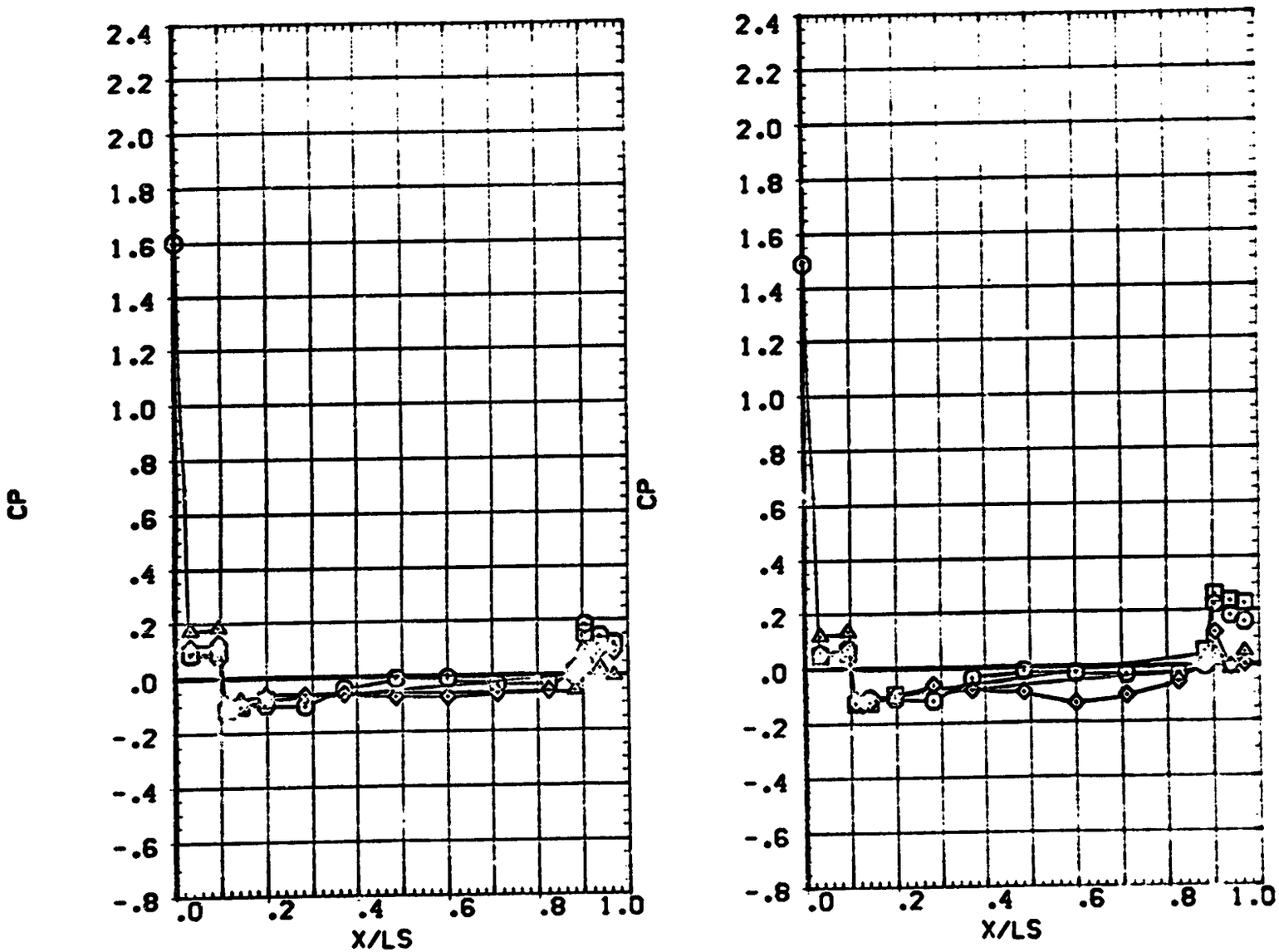
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AYES 87-707 :A9 C2A + S3 + '9 SRM BOOSTER (RBNSC4)

SYMBOL	PHI	BETA	MACH
	.000	4.300	2.498
	45.000	8.550	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHA	-4.000	SPOINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



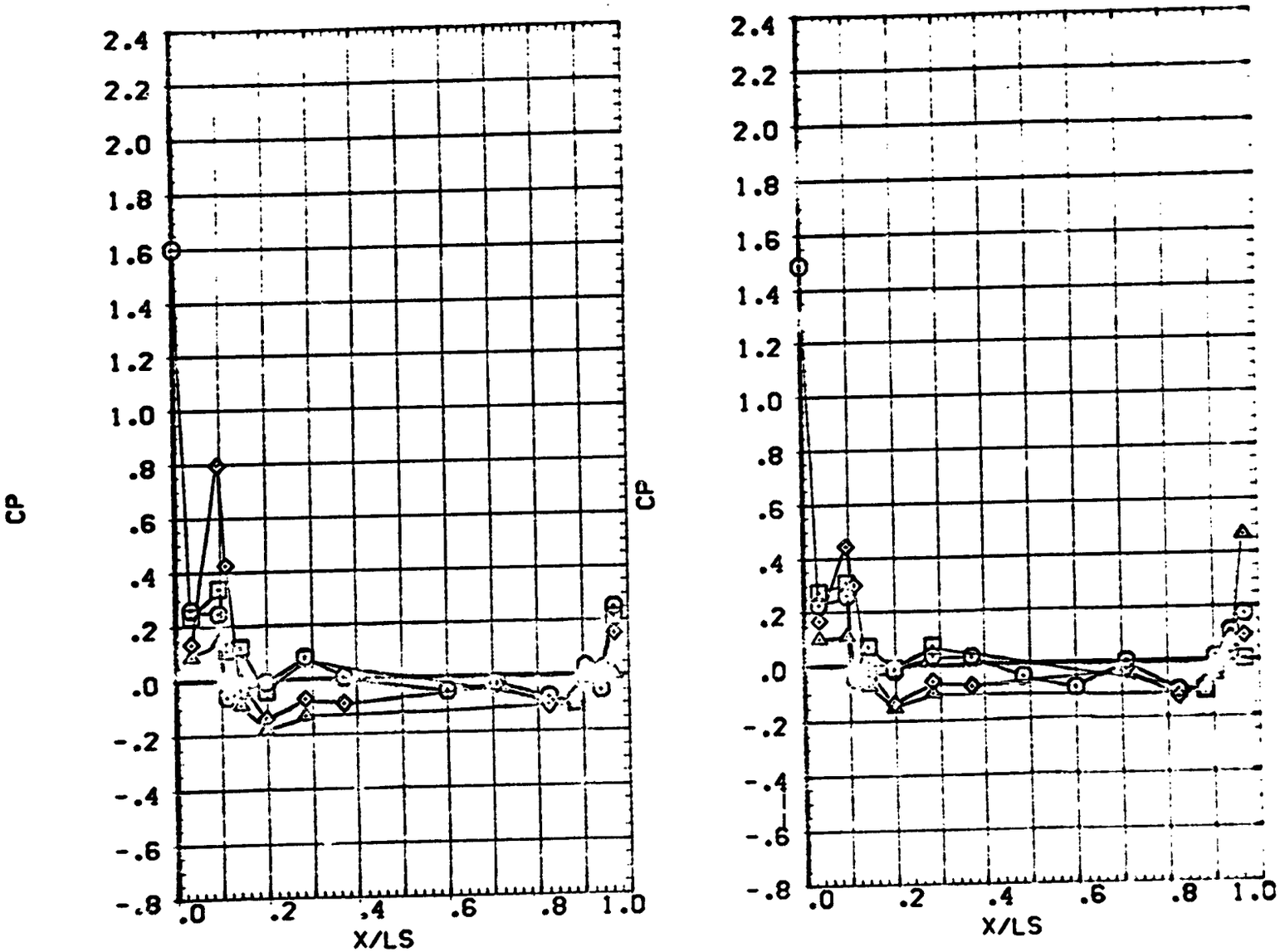
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AV[illegible] 87-707 [illegible] C2A + S3 + [illegible] SRM BOOSTER (RB\S04)

SYMBOL	RN/L	ALPHAT	MACH
○	180.000	4.300	2.498
□	275.000	8.550	
◇	770.000		
△	915.000		

PARAMETRIC VALUES

ALPHAT	-4.000	SPOILER	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES.

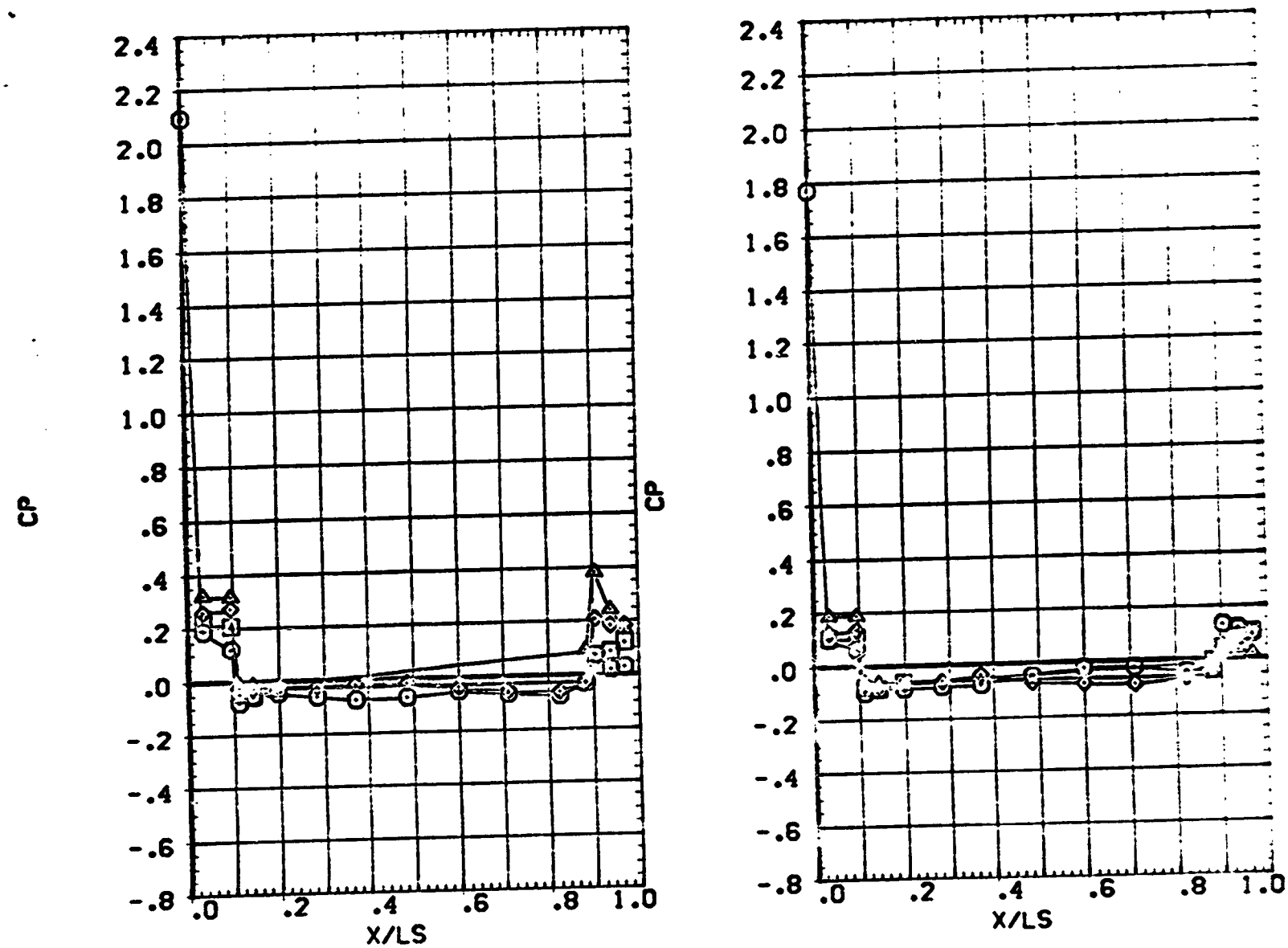
PAGE [illegible]

AMES 87-707 IA9 02A + S3 - T9 SRM BOOSTER (RBNS04)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.260	2.999
□	45.000	2.210	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBIND	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



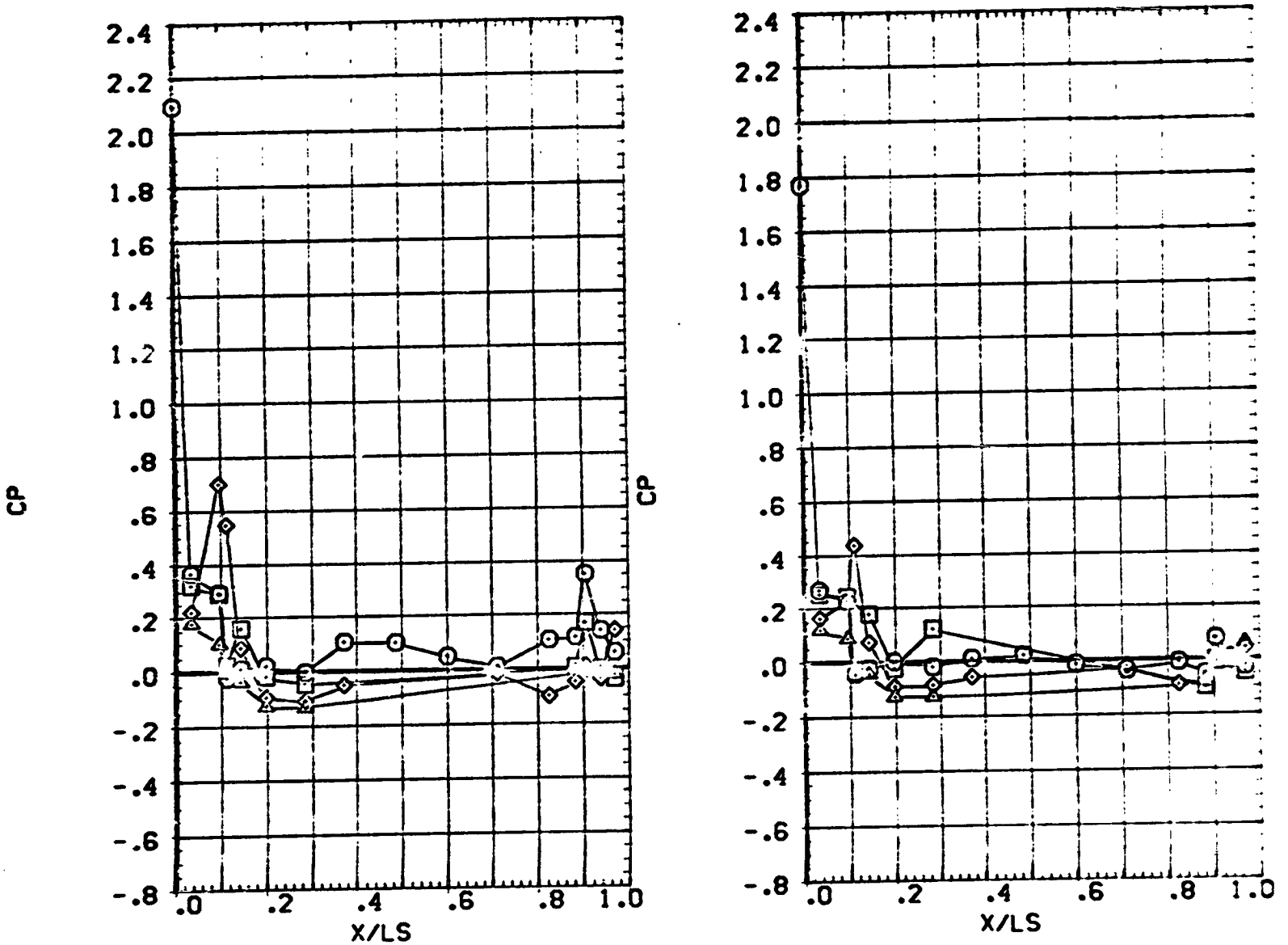
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 IA9 02A - S3 - 19 SRM BOOSTER (RBNS04)

SYMBOL	PHI	BETAT	MACH
○	180.000	-4.260	2.999
	225.000	2.210	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



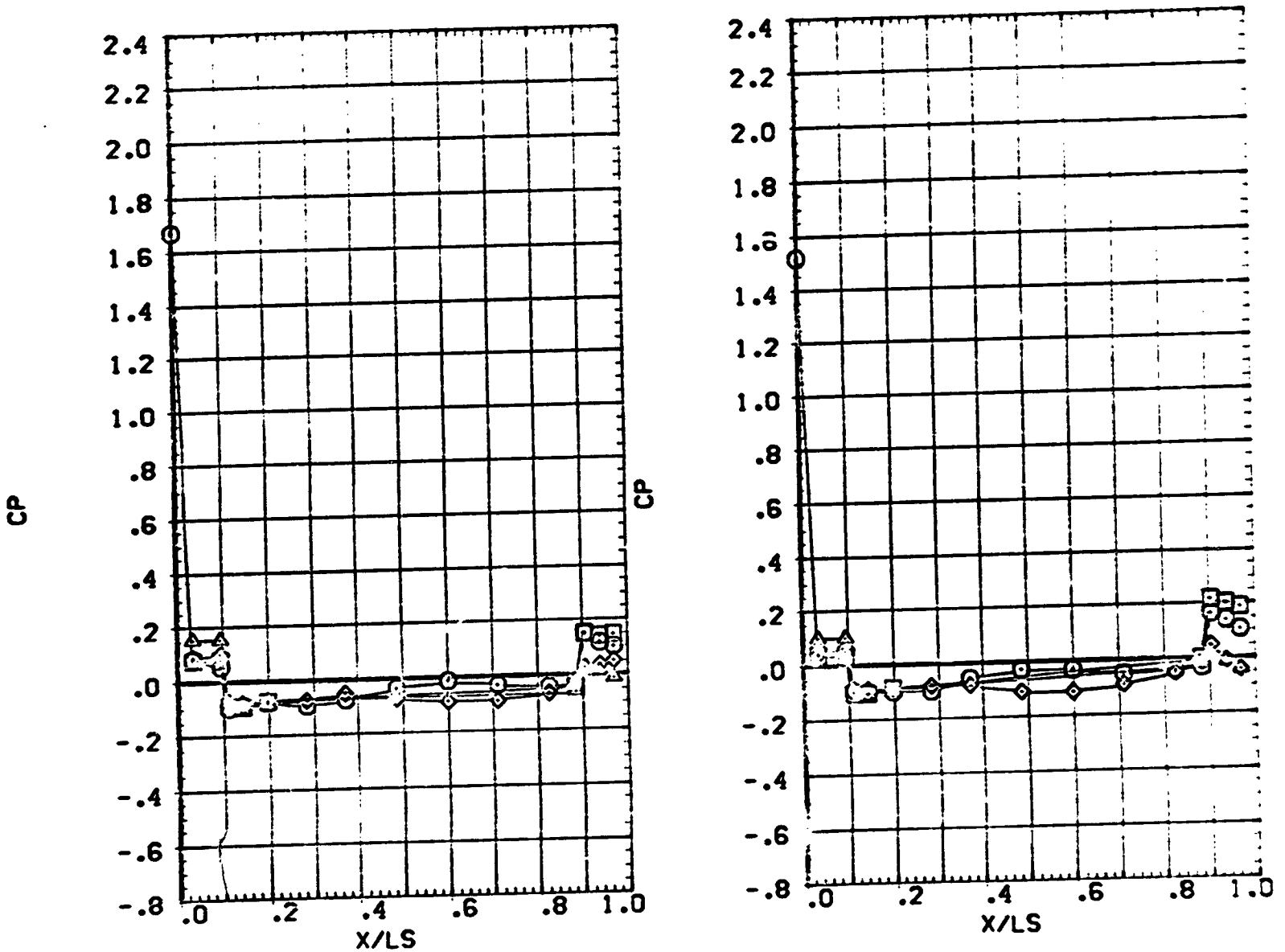
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 IA9 02A + S3 + T9 SRM BOOSTER (RB\S04)

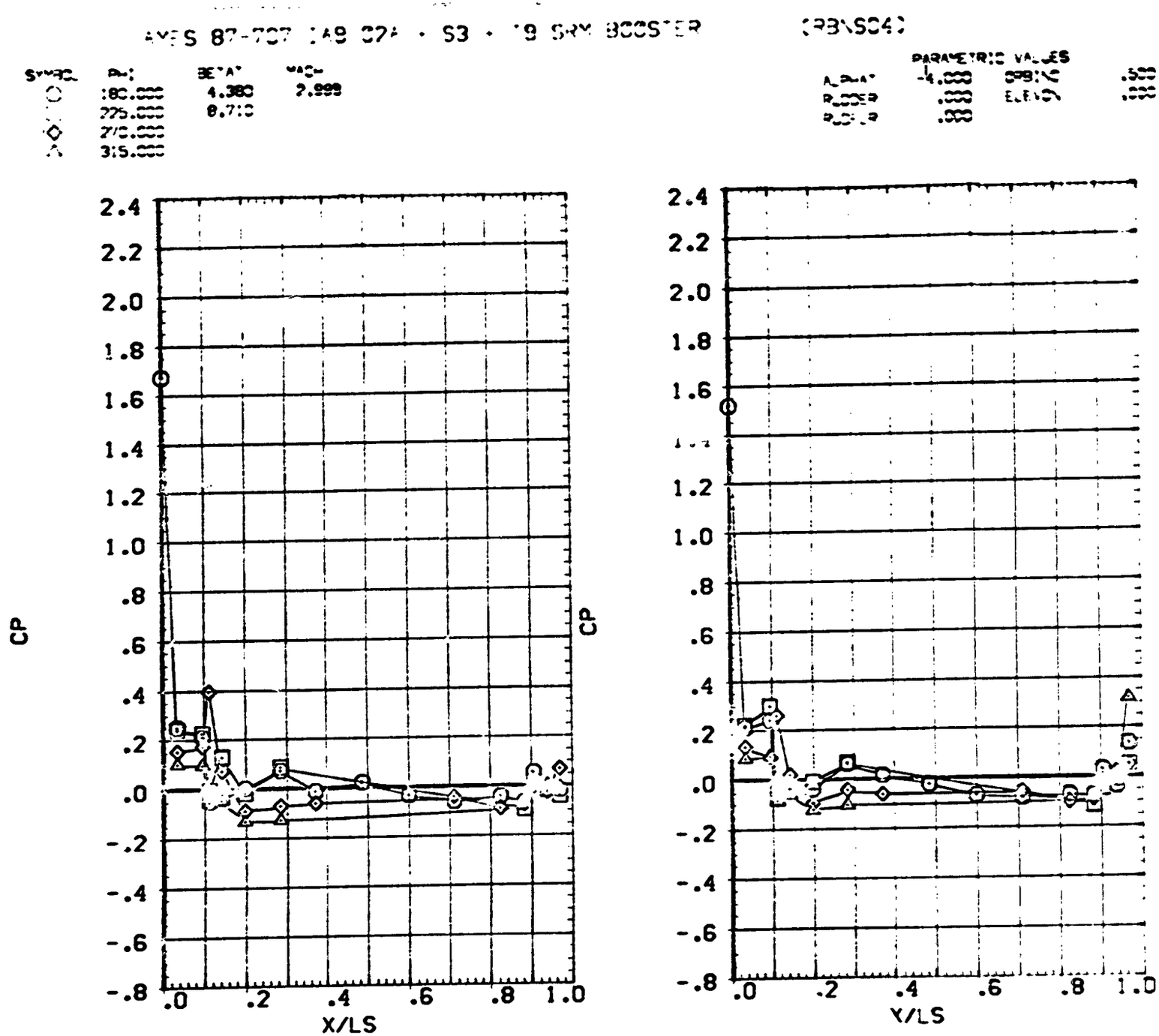
SYMBOL	PHI	BETAT	MACH
○	.000	4.380	2.999
□	45.000	8.710	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBIND	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



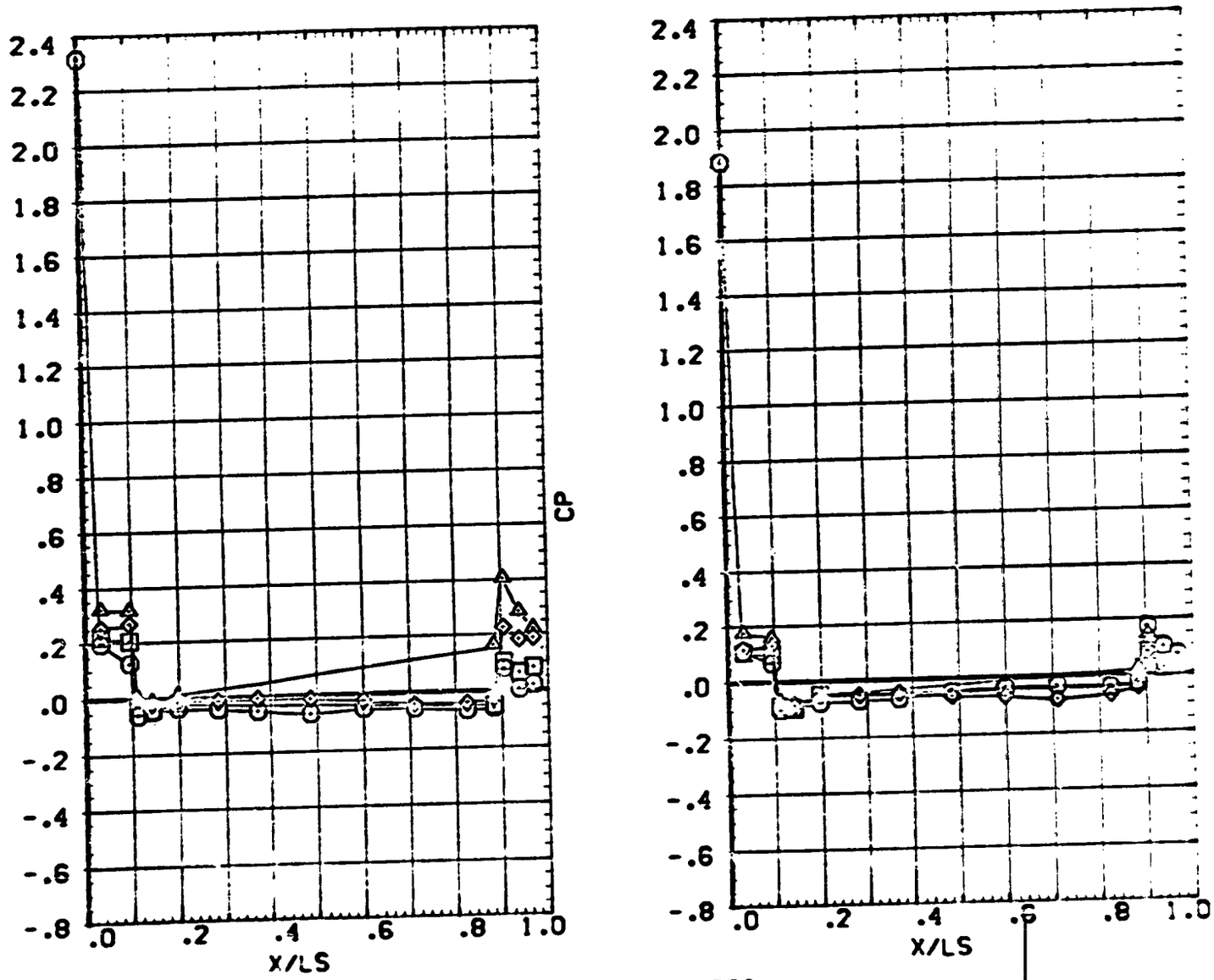
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 IA8 02A + S3 + T8 SRM BOOSTER (RB\SC4)

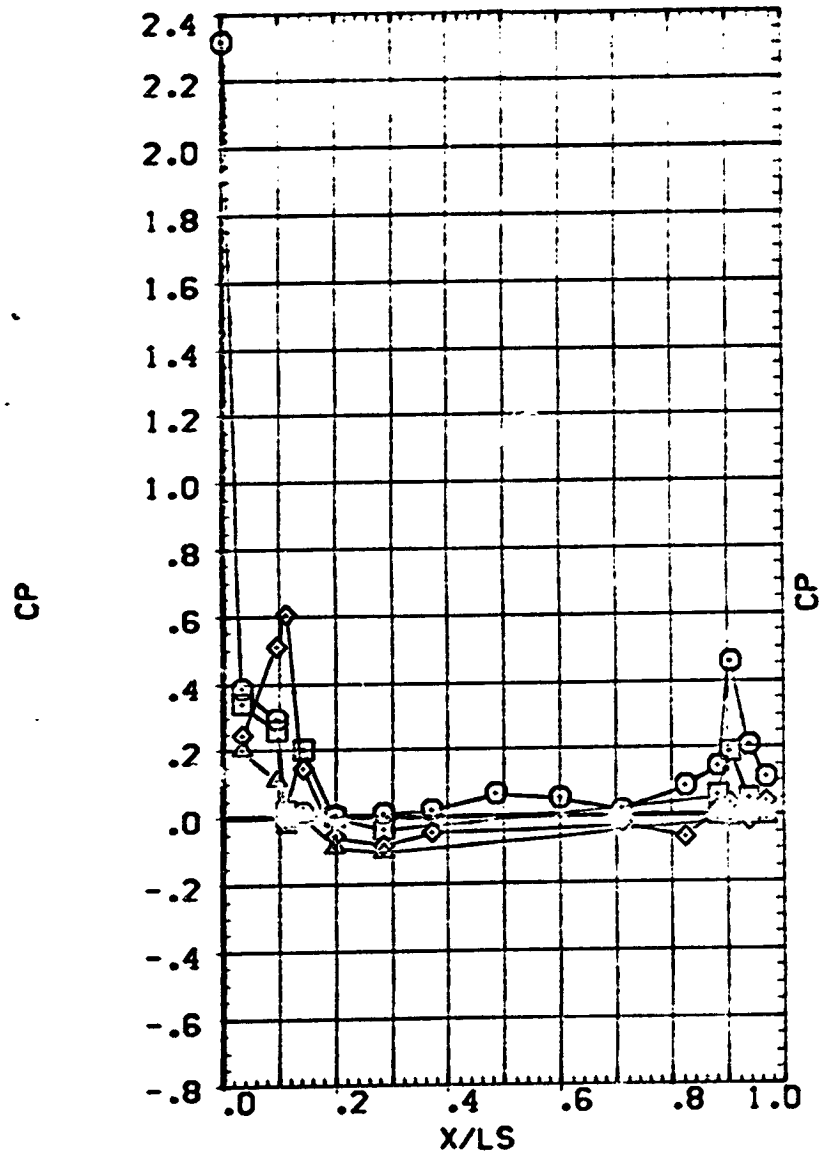
SYMBOL	PHI	BETAT	MACH
○	.000	-4.340	3.502
□	45.000	2.260	
◇	90.000		
△	135.000		

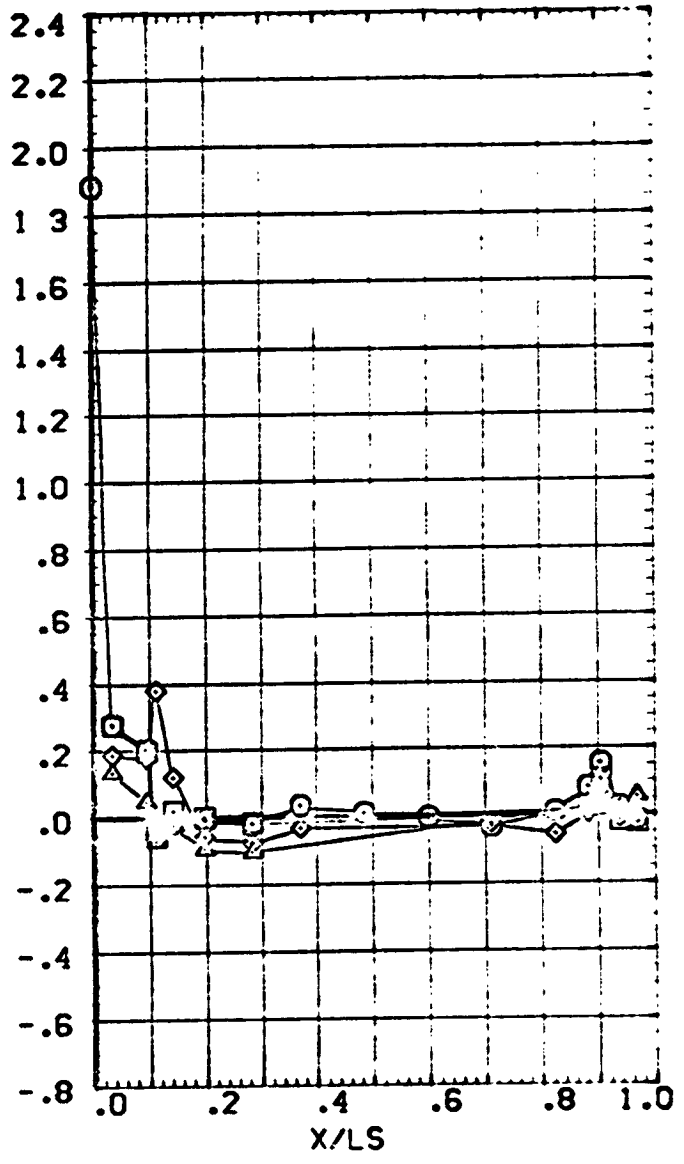
PARAMETRIC VALUES

ALPHAT	-4.000	ORBIND	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES





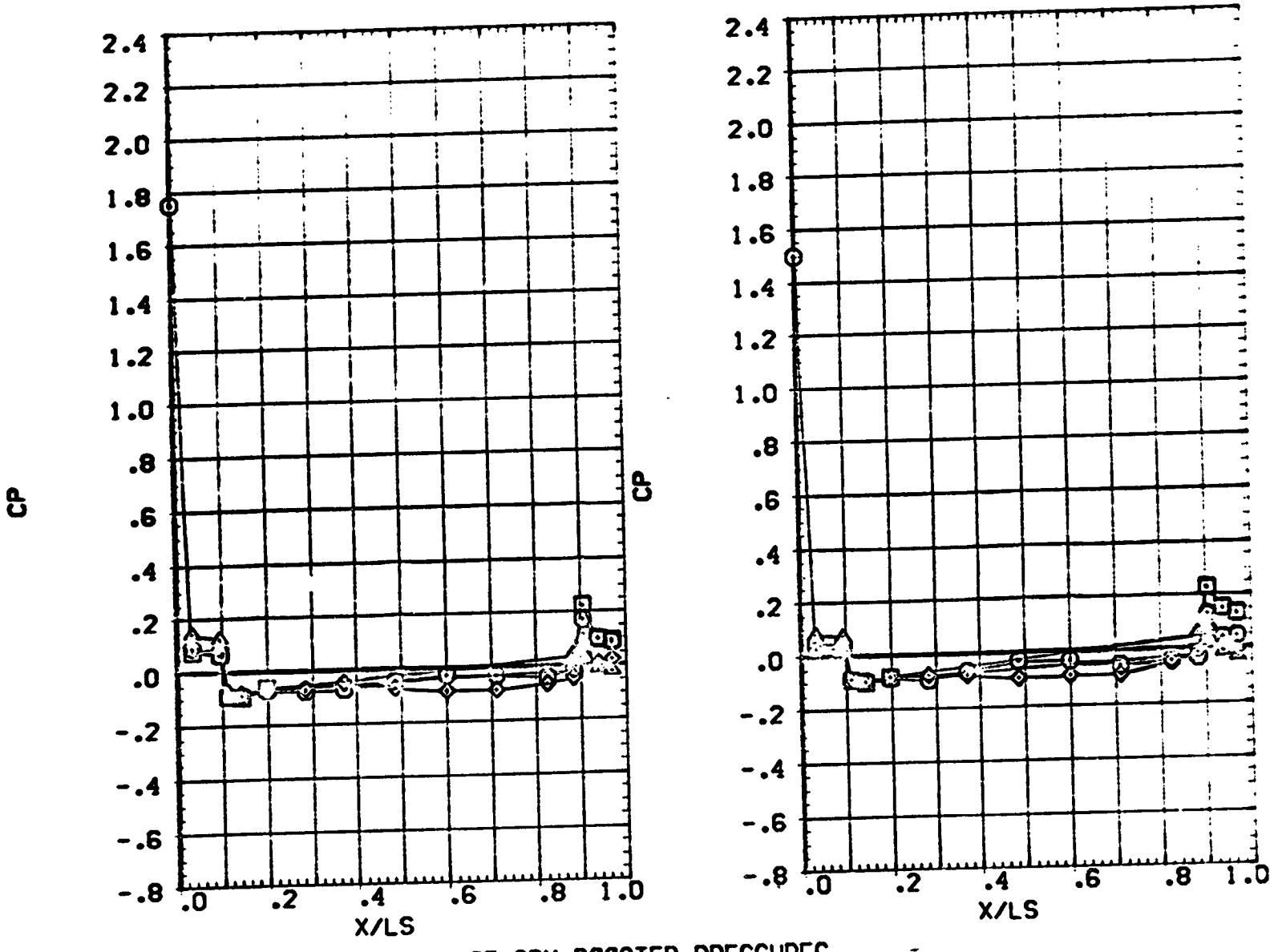
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 87-707 :A8 C2A · S3 · '8 SRM BOOSTER (RBNS04)

SYMBOL	PHI	BETA	MACH
○	.000	4.480	3.500
□	45.000	8.870	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	-4.000	BODY	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



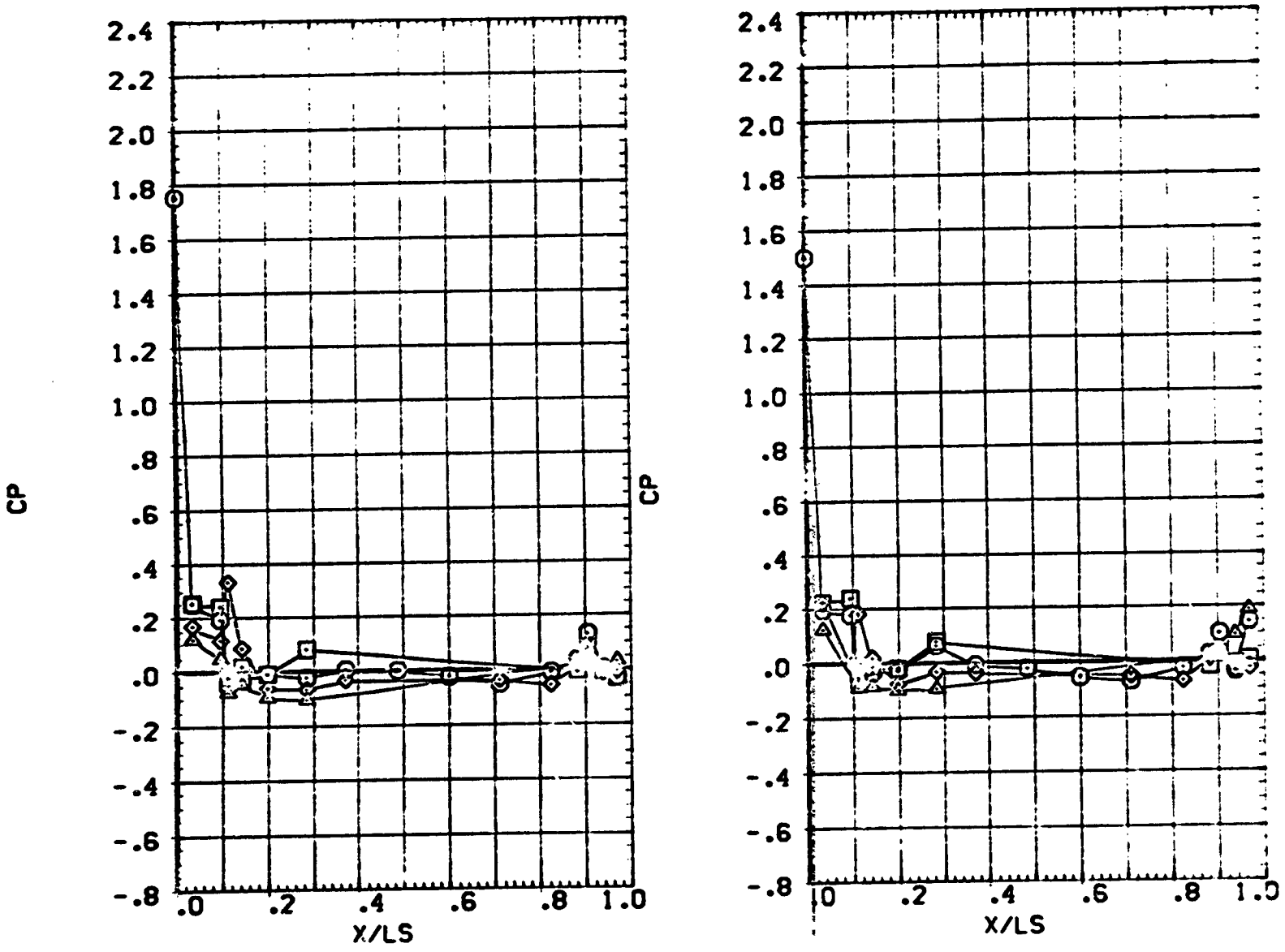
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 :A9 C2A + S3 + '9 SRM BOOSTER (RB\S04)

SYMBOL	PHI	BETA	MACH
	180.000	4.460	3.502
	225.000	8.870	
	270.000		
	315.000		

PARAMETRIC VALUES

ALPHAT	-4.000	SPOILR	.500
RUDDER	.000	ELEVN	.000
RUDFLR	.000		



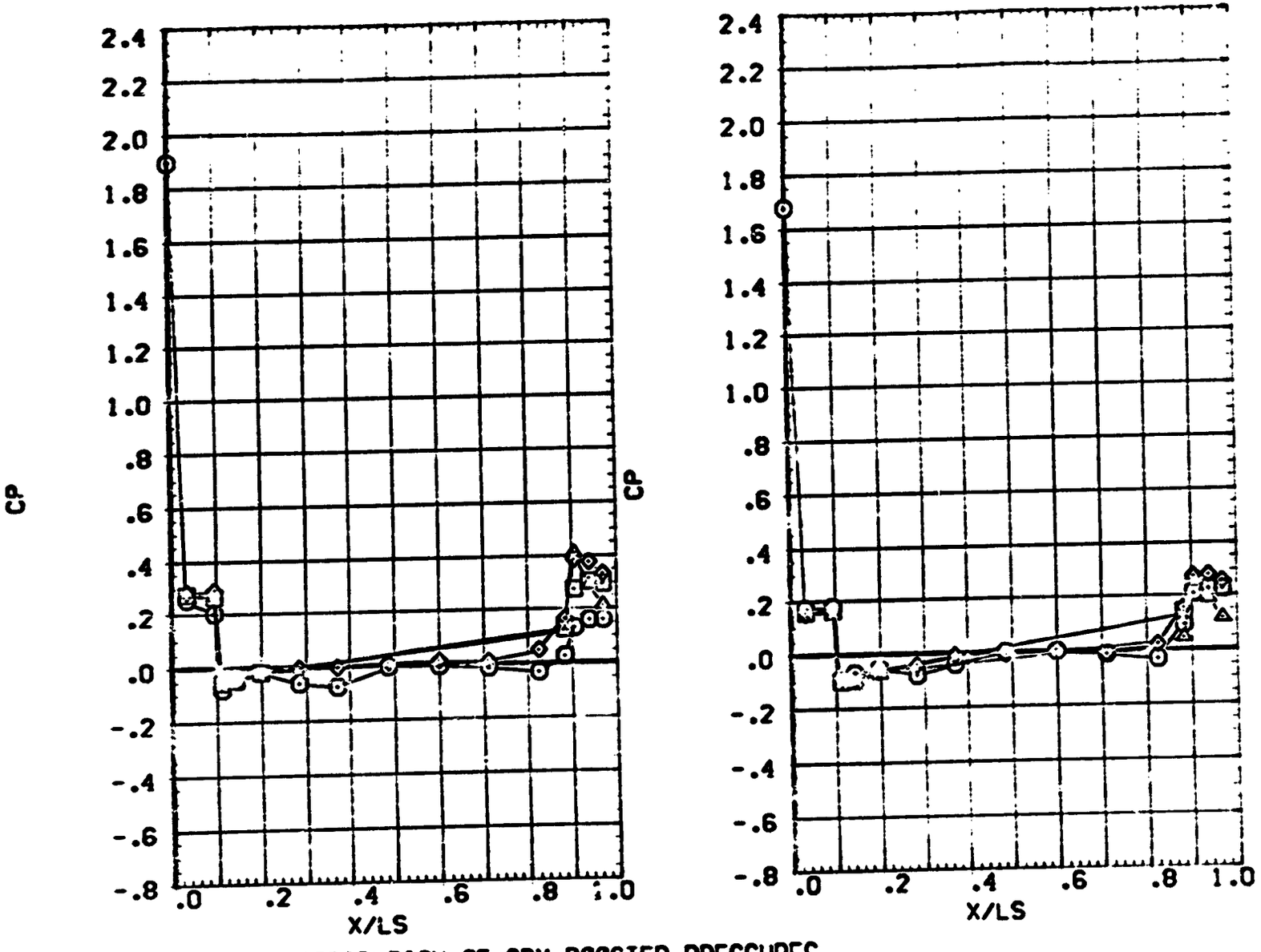
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AYES 87-707 IA9 02A - S3 - T9 SRM BOOSTER (RB\S06)

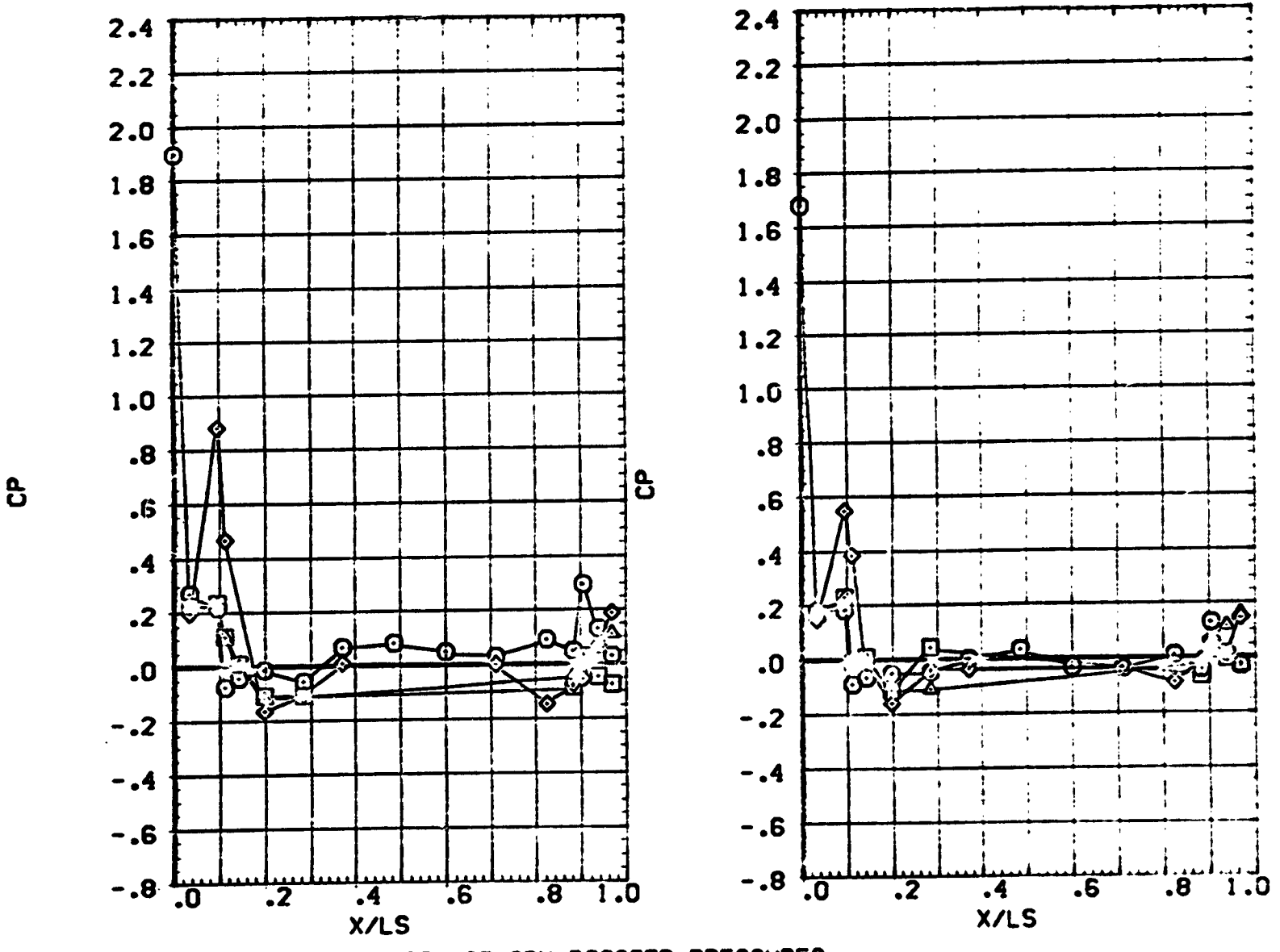
SYMBOL	PHI	BETAT	MACH
	.000	-4.190	2.498
	45.000	2.170	
	90.000		
	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



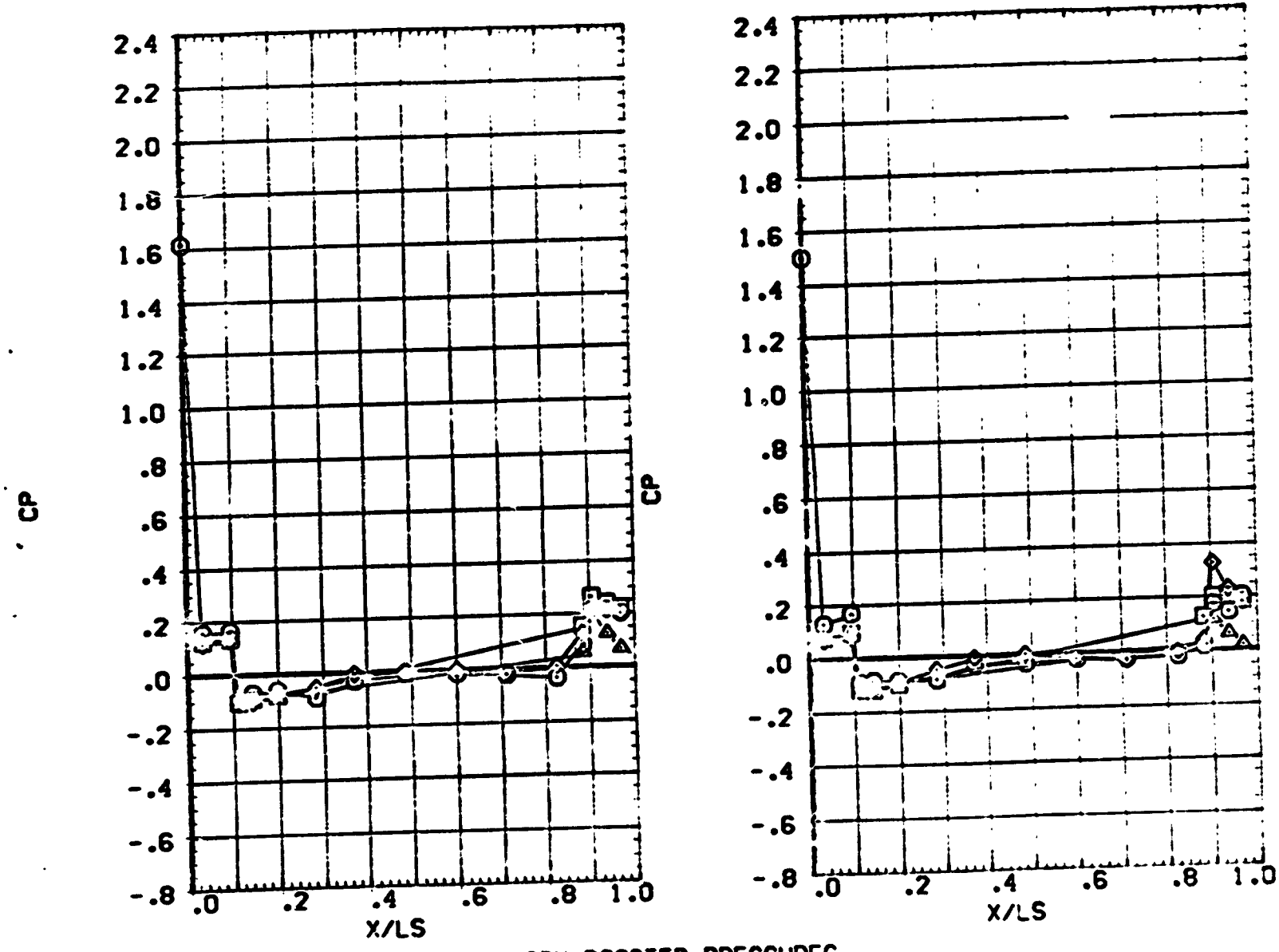
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 IA9 C2A - S3 - T9 SRM BOOSTER (RB\SC6)

SYMBOL	PHI	BETAT	MACH
○	.000	4.290	2.498
□	45.000	8.340	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

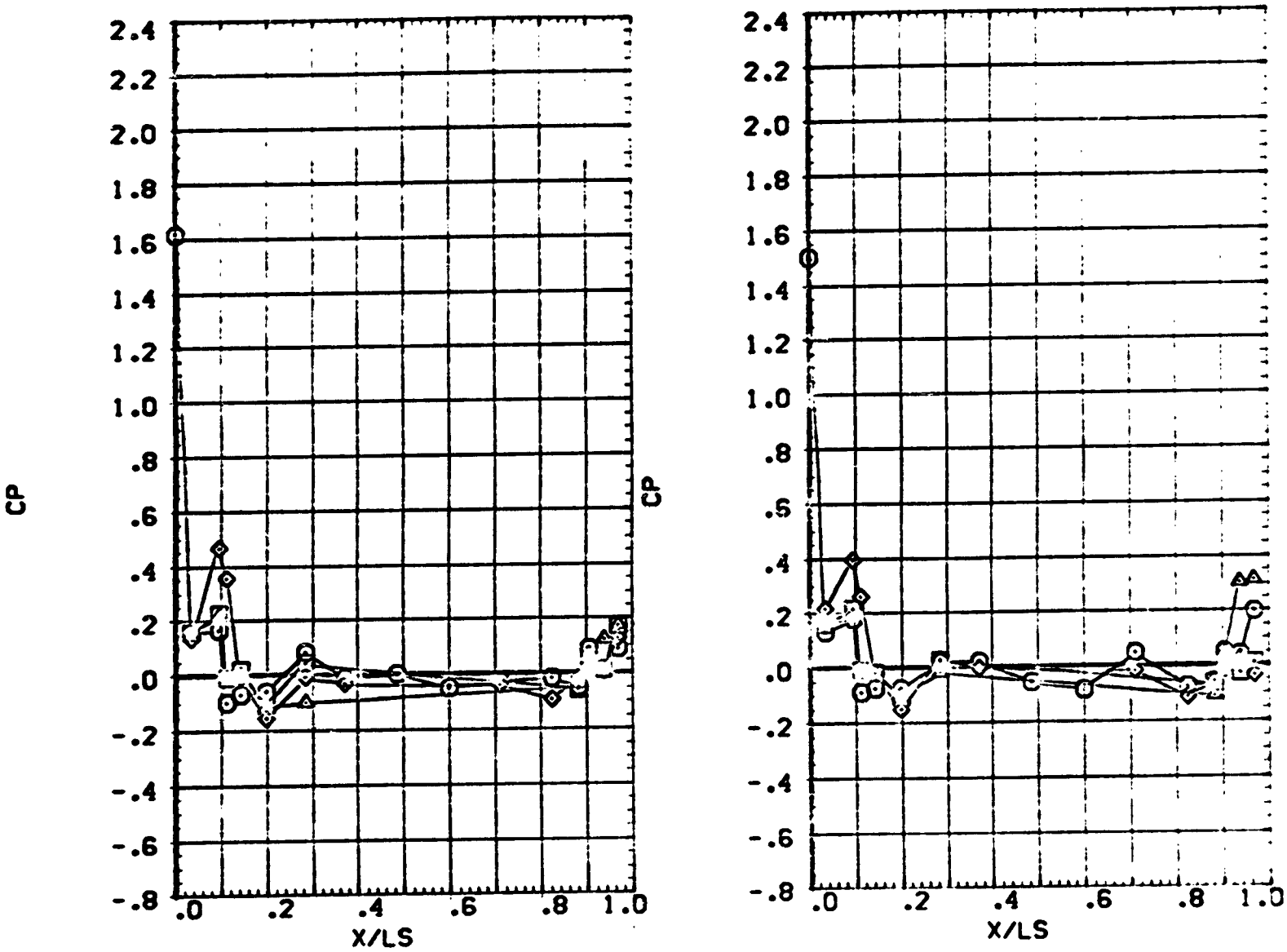


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

SYMBOL	PHI	BETAT	MACH
○	180.000	4.780	2.499
□	225.000	8.540	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



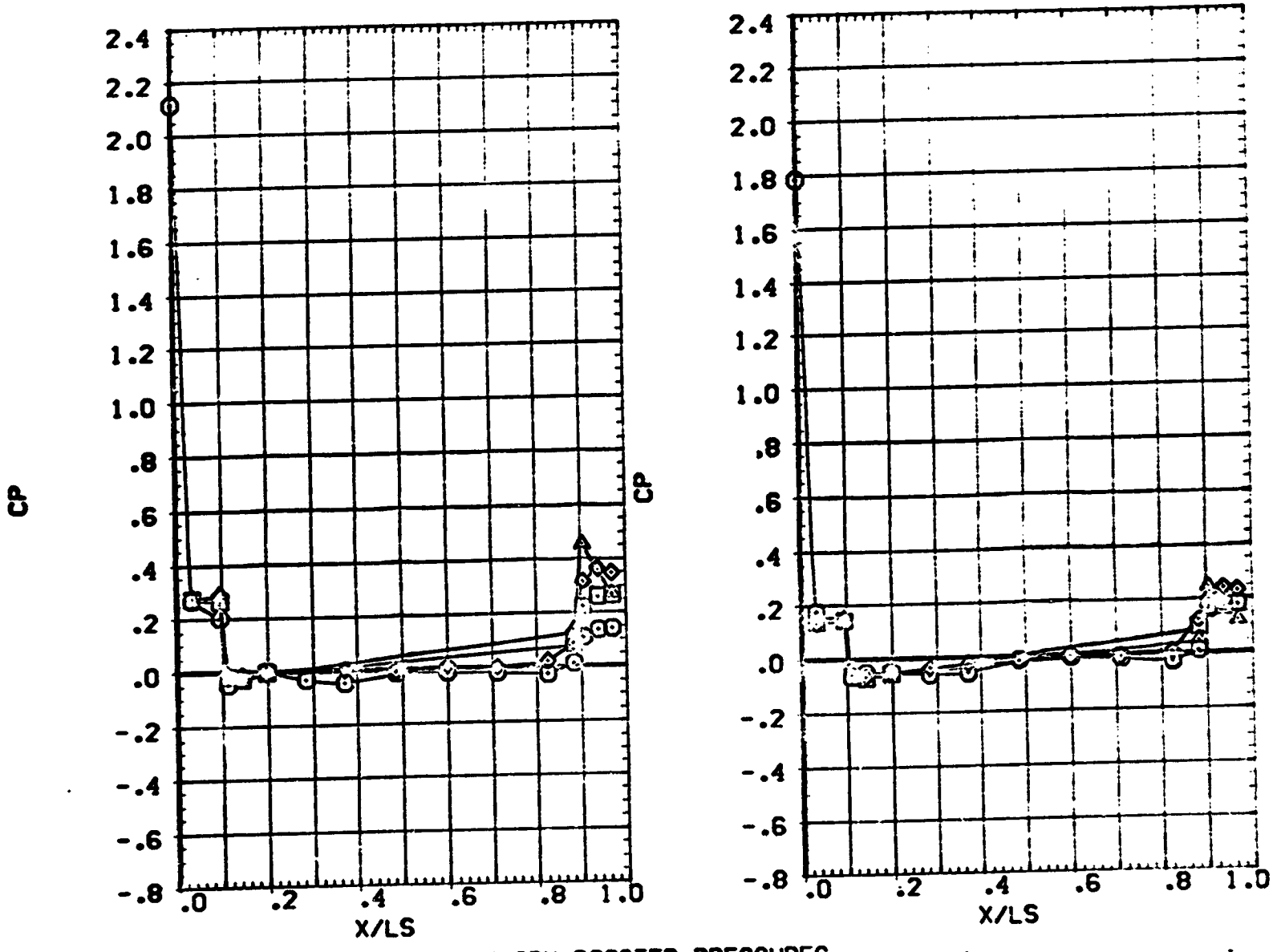
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 87-707 IA9 02A + S3 + T9 SRM BOOSTER (RB\SC6)

SYMBOL	PHI	BETAT	MACH
	.000	-4.270	2.999
	45.000	2.210	
	90.000		
	135.000		

PARAMETRIC VALUES

ALPHAT	.000	BODY\C	.500
RUDDER	.000	ELEVON	.000
AILERON	.000		



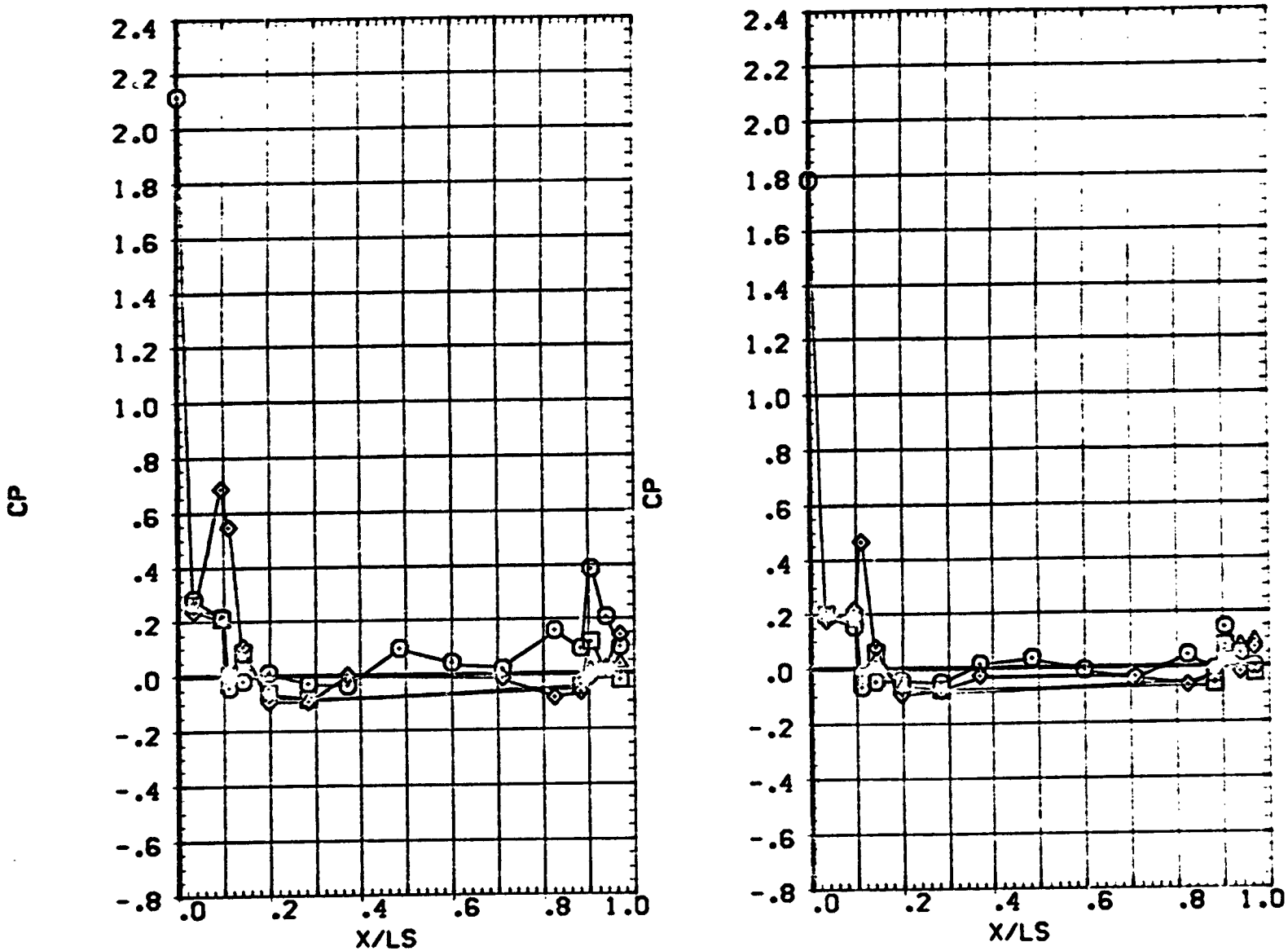
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 SRM BOOSTER (RBNSC6)

SYMBOL	PHI	BETA	MACH
○	180.0000	-4.270	2.999
·	225.0000	2.210	
◇	270.0000		
△	315.0000		

PARAMETRIC VALUES

ALPHA	.0000	SREF/C	.500
RUDDER	.0000	ELEVON	.0000
ROLLER	.0000		



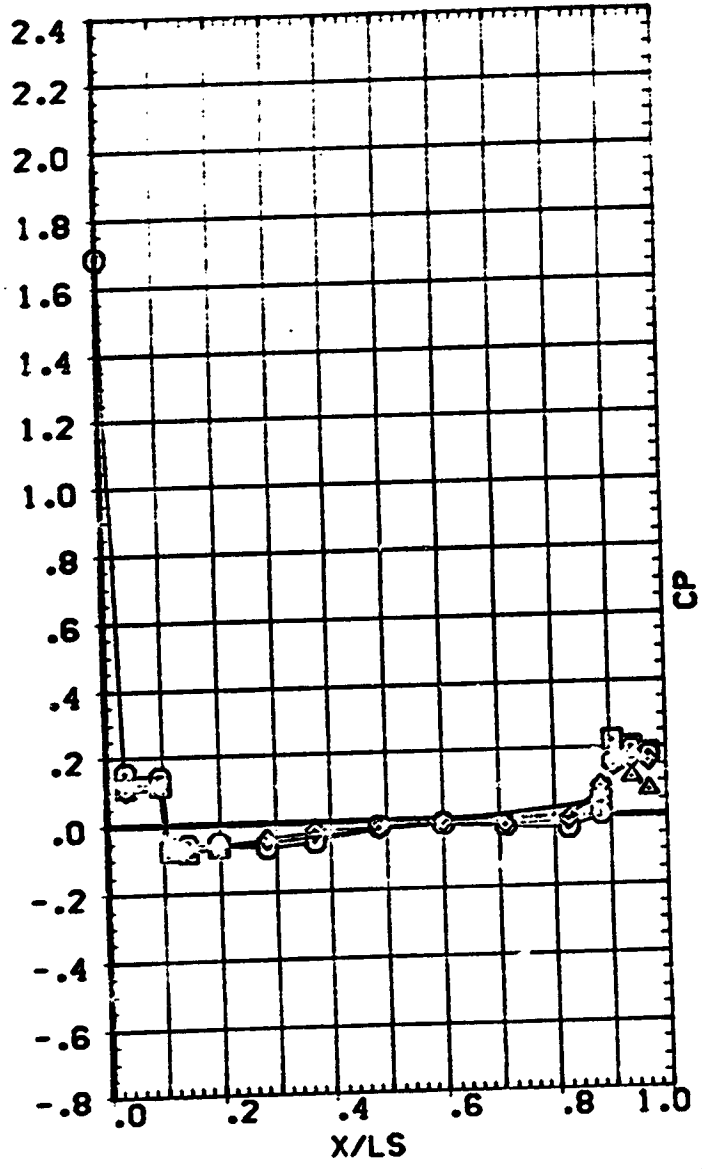
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

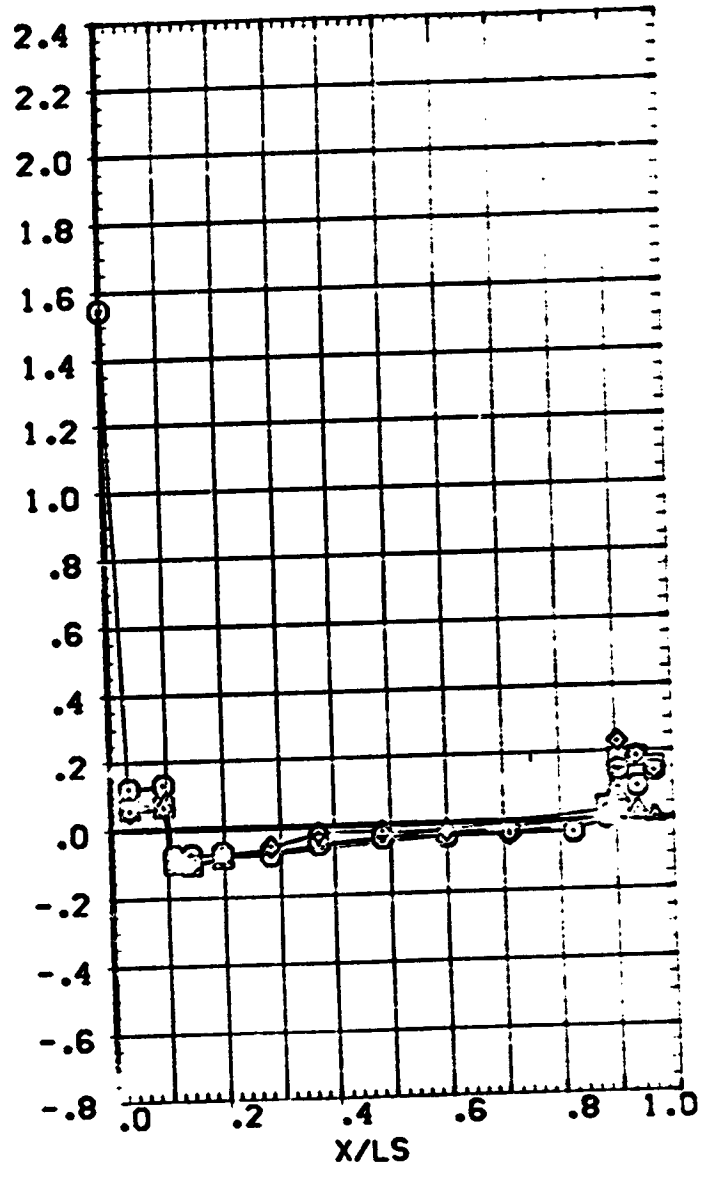
AVES 87-707 :A9 02A + S3 + T9 SRM BOOSTER (RBNS06)

SYMBOL	PHI	BETA	MACH
○	.000	4.370	2.999
□	45.000	8.680	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	.000	[illegible]	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		





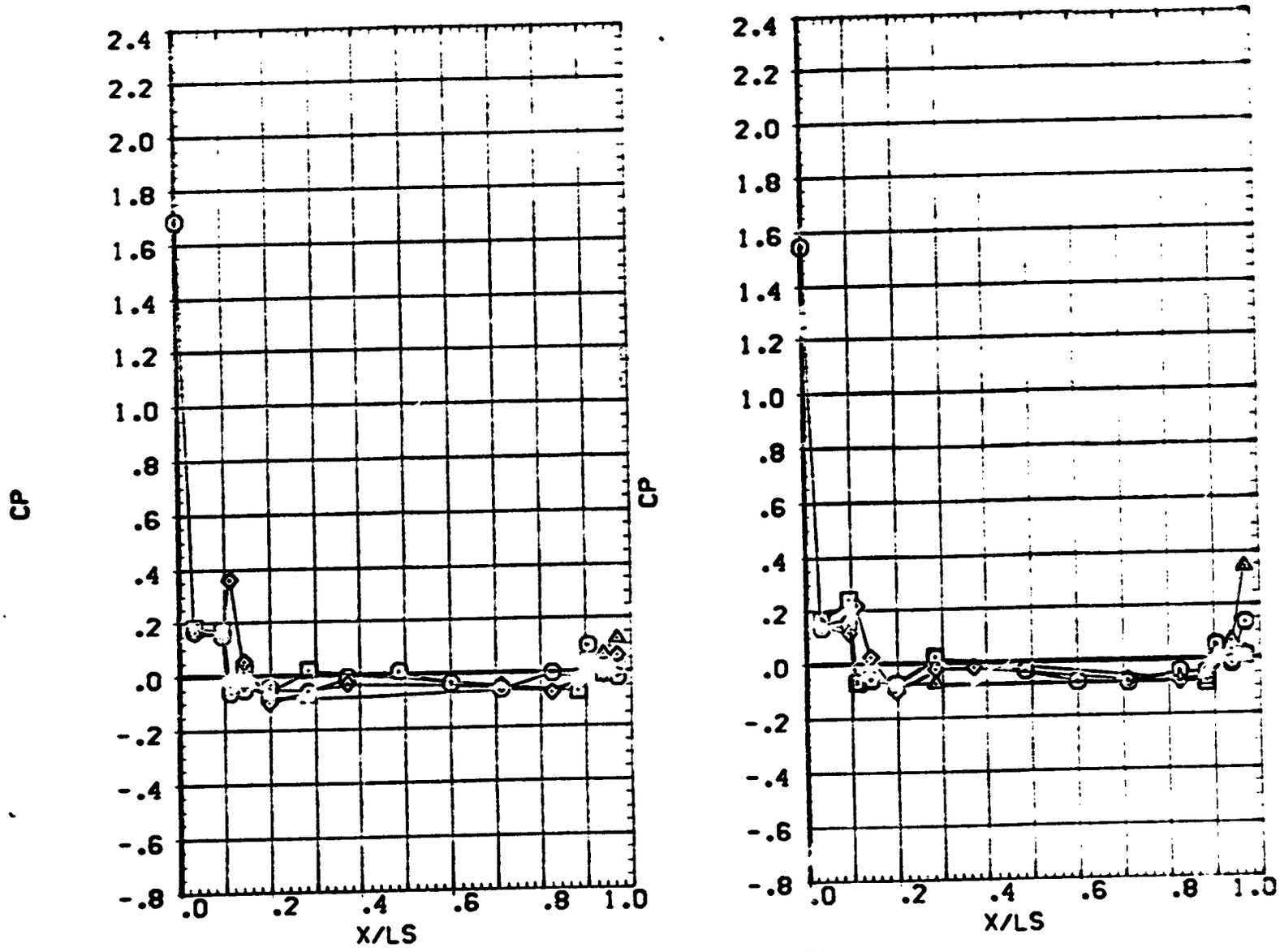
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 87-707 :A9 02A + S3 + '9 SRM BOOSTER (RBNSOS)

SYMBOL	PHI	BETA	MACH
○	:80.000	4.370	2.999
□	225.000	8.690	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHA	.000	999.0	.000
RUDDER	.000	999.0	.000
RUDDER	.000		



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

PAGE 716

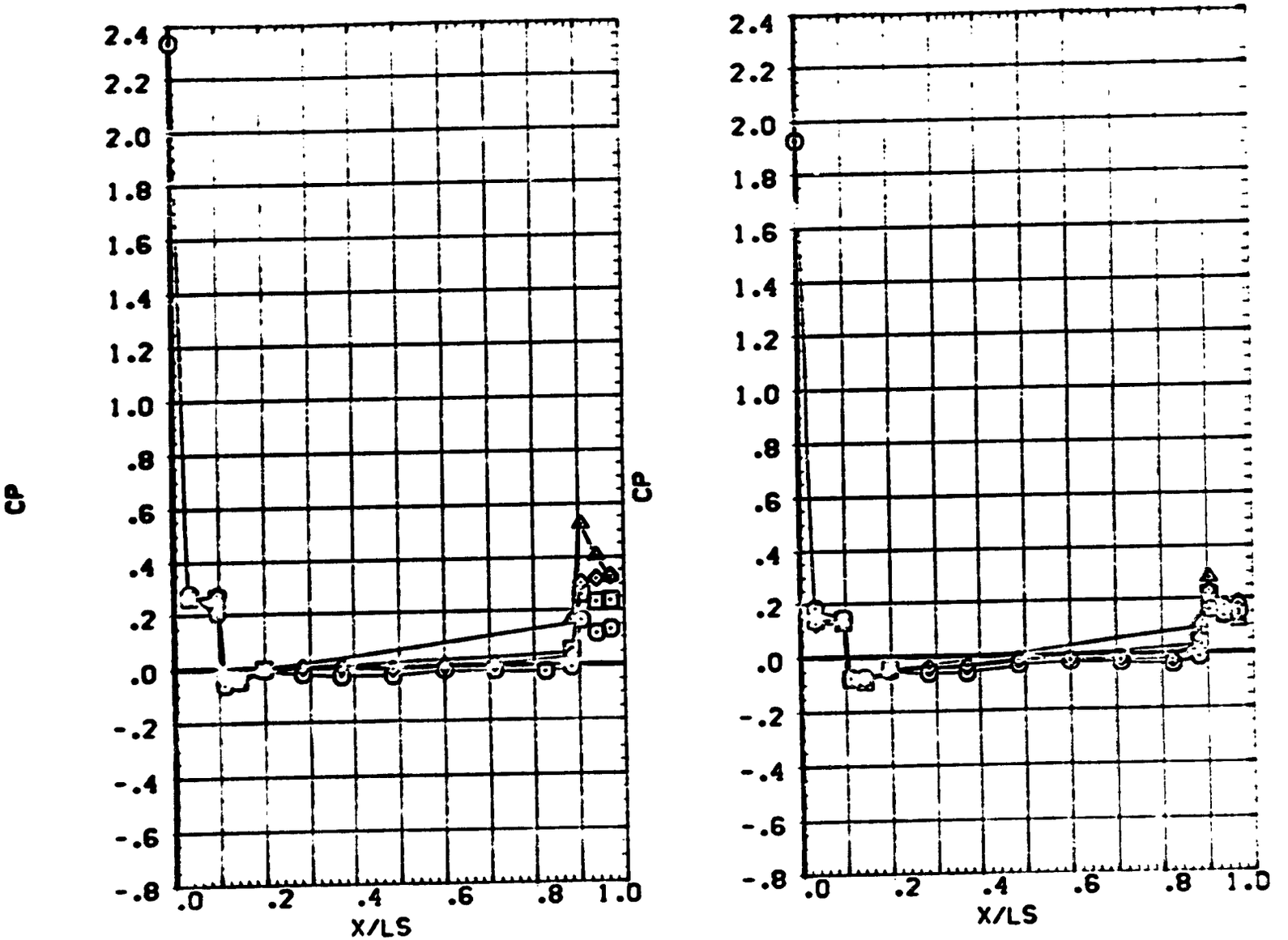
AMES 87-707 :A9 C2A + S3 + '9 SRM BOOSTER (RB\SCB)

PARAMETRIC VALUES

ALPHAT .000

RUDDER .000

ROLLR .000



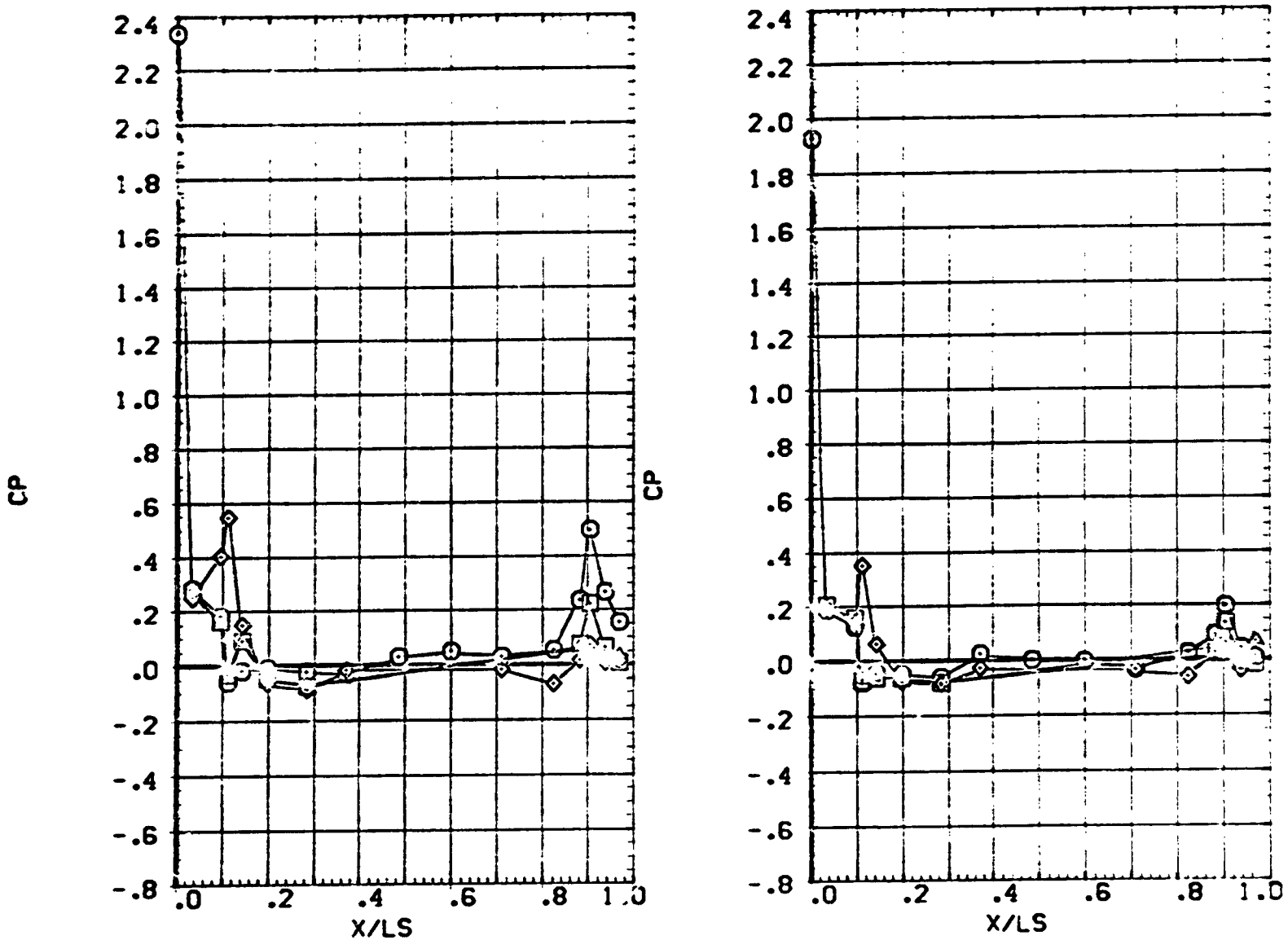
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 IA9 C2A - S3 - [illegible] SRM BOOSTER (RB\SCS)

SYMBOL	MACH	BETA	MACH
	.80	-4.340	3.502
	[illegible]	2.060	
	[illegible]		
	[illegible]		

PARAMETRIC VALUES

ALPHA	.0000	SPOILER	.5000
RUDDER	.0000	ELEVON	.0000
ROLL	.0000		



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

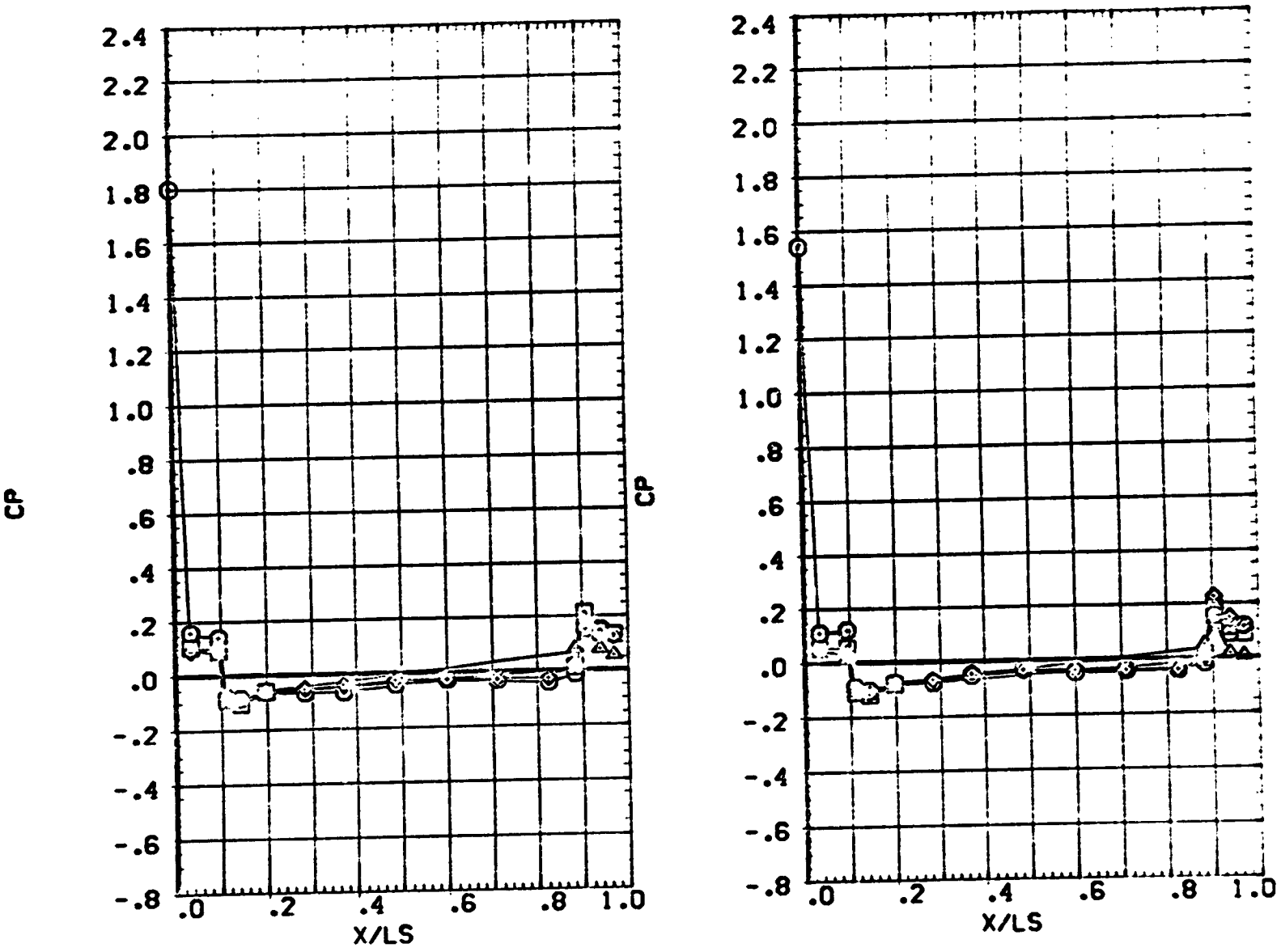
PAGE [illegible]

AVES 87-707 :A9 32A + S3 + 19 SRV BOOSTER (RB\SOB)

SYMBOL	PHI	BETA	MACH
	.000	4.450	3.502
	45.000	8.850	
	90.000		
	135.000		

PARAMETRIC VALUES

ALPHA	.000	ORBITER	.500
RUDDER	.000	ELEVON	.000
ROLLER	.000		

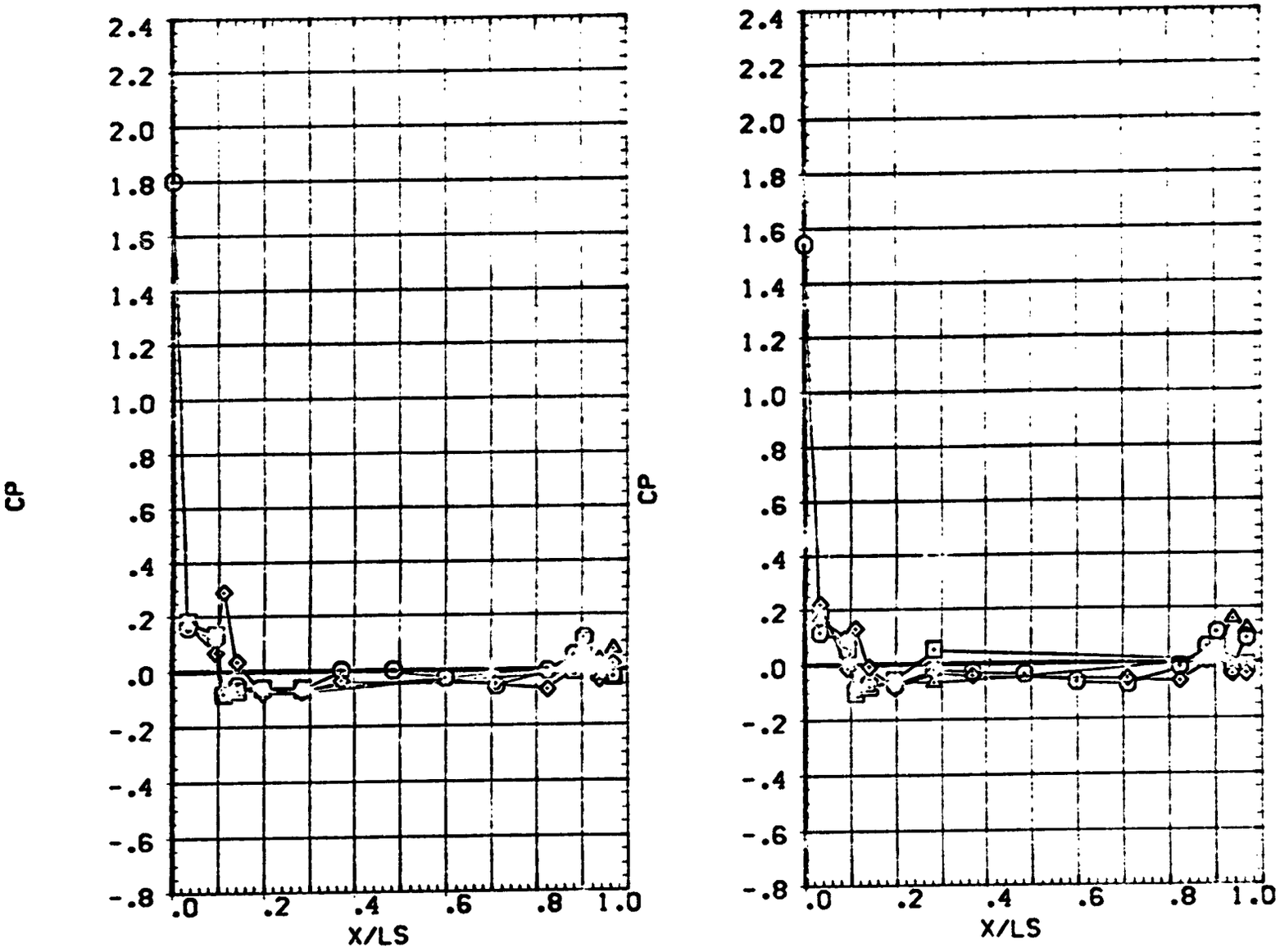


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

SYMBOL	PHI	BETA	MACH
○	180.000	4.450	3.502
□	225.000	8.850	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHA	.000	SPOILER	.500
RUDDER	.000	ELEVON	.000
ROLLER	.000		



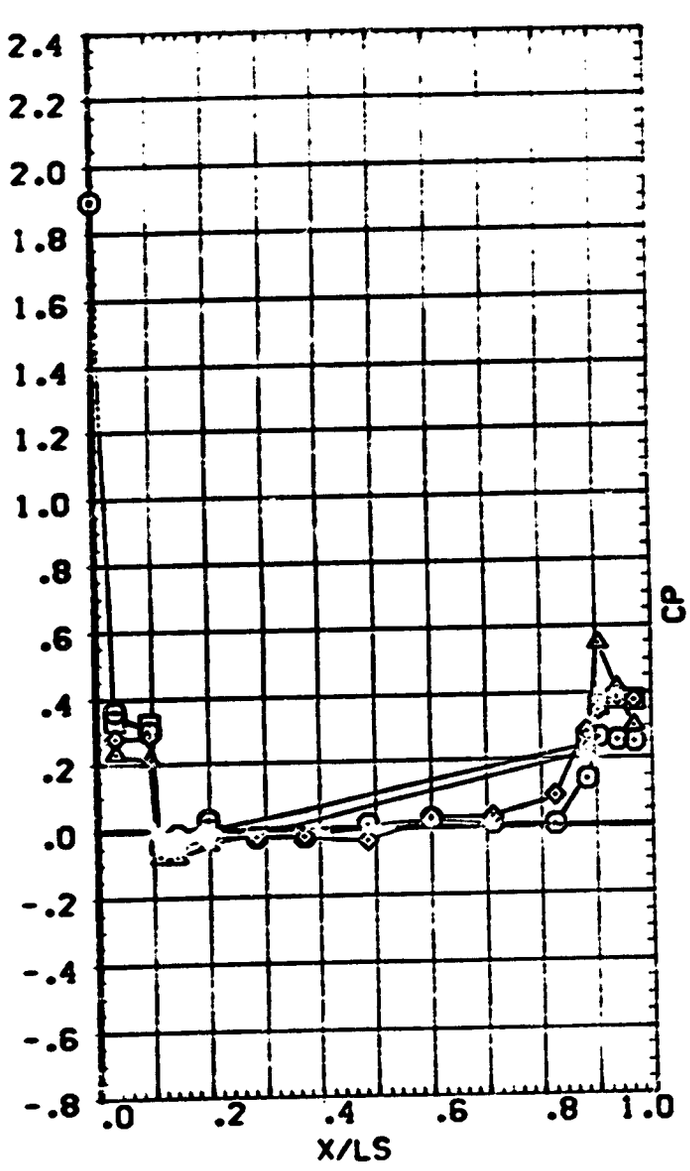
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

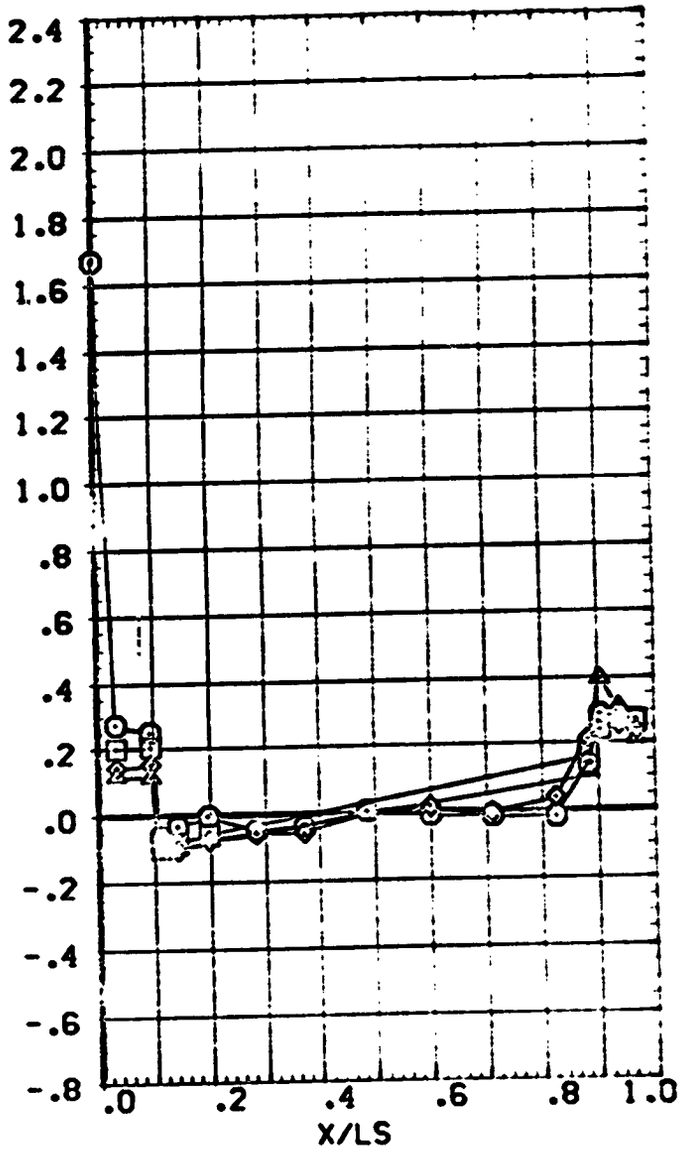
AVES 87-707 :A9 C2A - S3 - '9 SRM BOOSTER (RB\SCB)

SYMBOL	PHI	BETA	MACH
	.000	-4.190	2.498
	45.000	2.170	
	90.000		
	135.000		

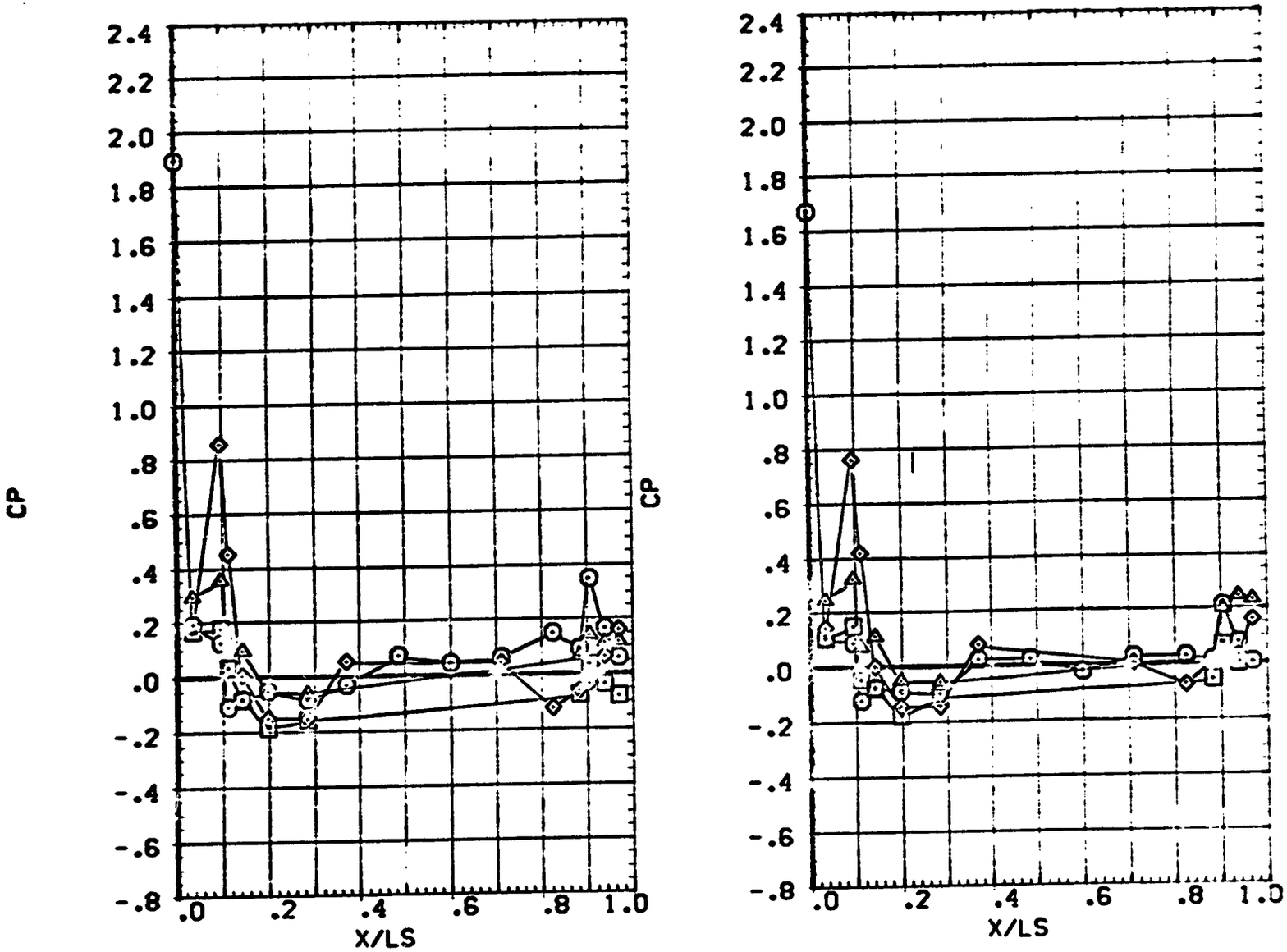
PARAMETRIC VALUES

ALPHA	4.000	SPOILER	.500
RUDDER	.000	ELEVON	.000
ROLL	.000		





LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



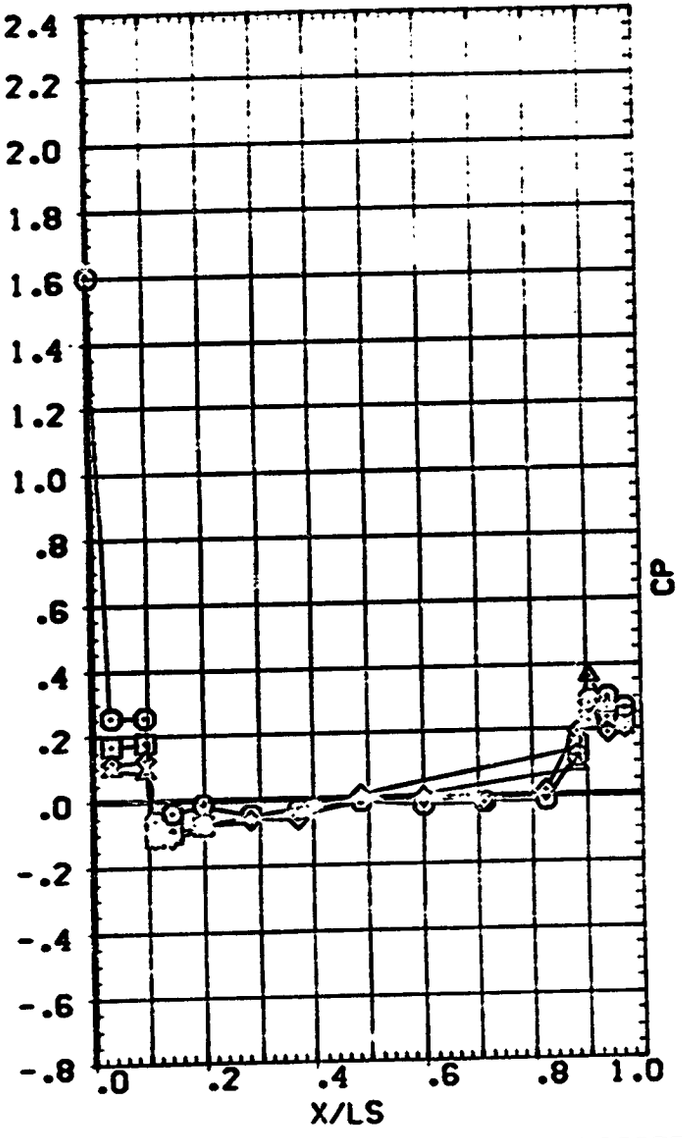
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

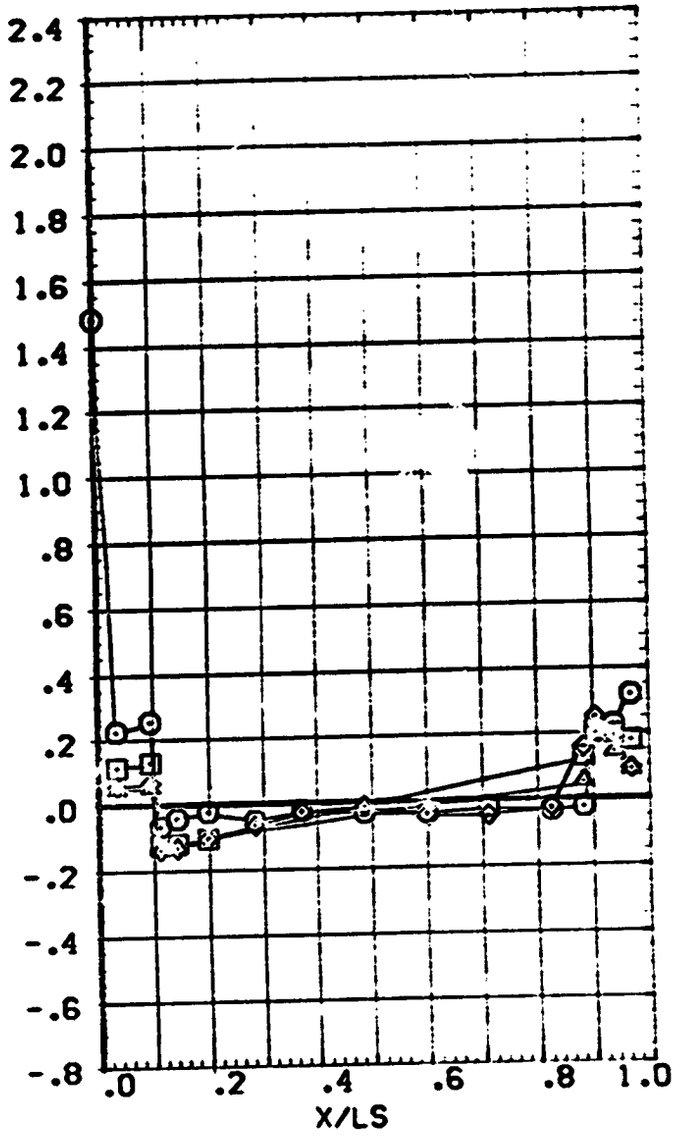
AMES 87-707 :A8 02A - S3 - '8 SRM BOOSTER (RB\SC8)

SYMBOL	PHI	BETAT	MACH
	.0000	4.300	2.498
	45.0000	8.550	
	90.0000		
	135.0000		

PARAMETRIC VALUES

ALPHA	4.000	DEFLC	.500
RUDDER	.000	ELEVON	.000
ROLLER	.000		





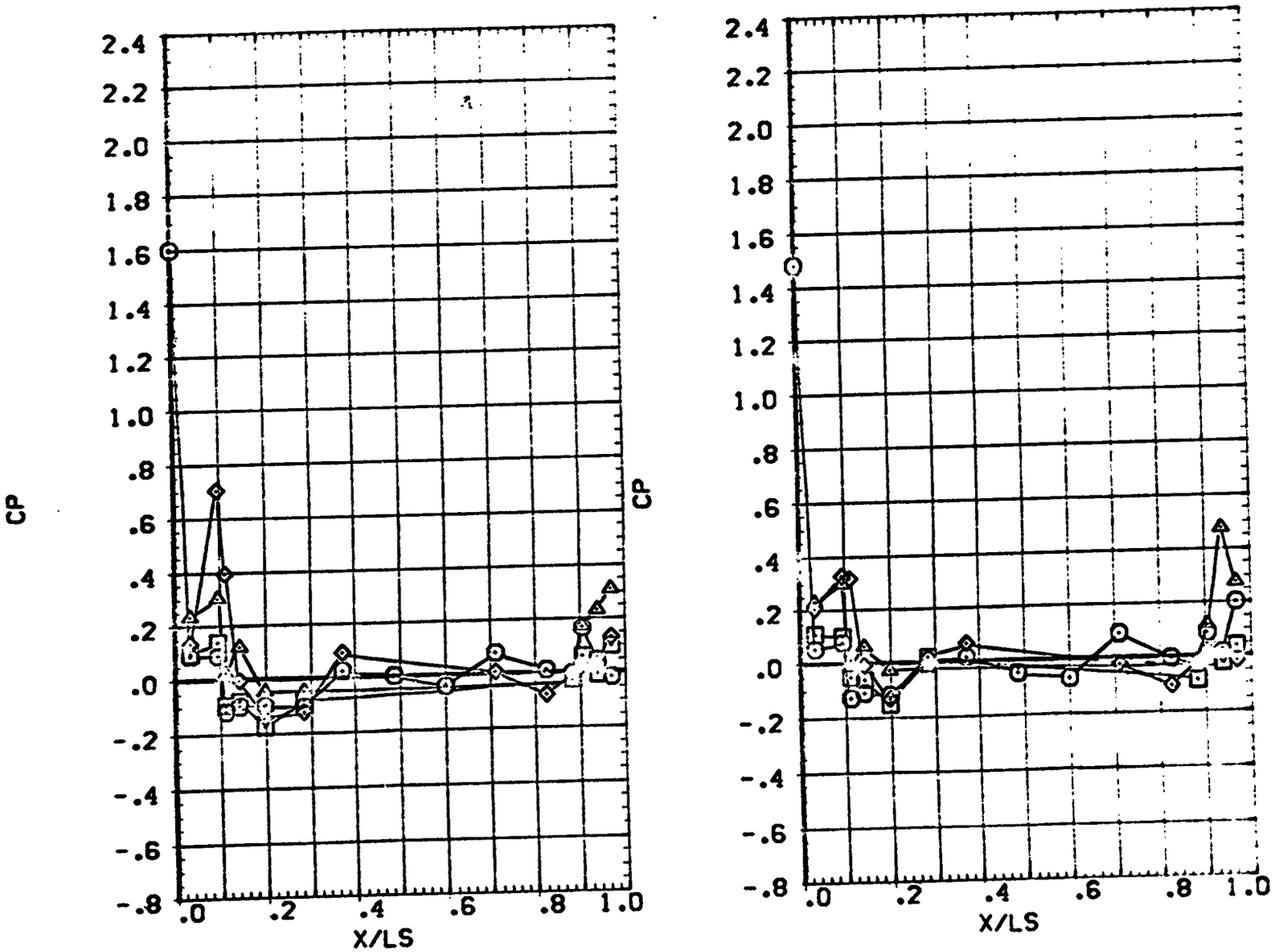
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 149 C2A + S3 + T9 SRM BOOSTER (RBNSC8)

SYMBOL	PHI	BETA	MACH
O	180.000	4.300	2.498
□	225.000	8.560	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHA	4.000	BODY	.500
RUDDER	.000	ELEVON	.000
ROLLER	.000		



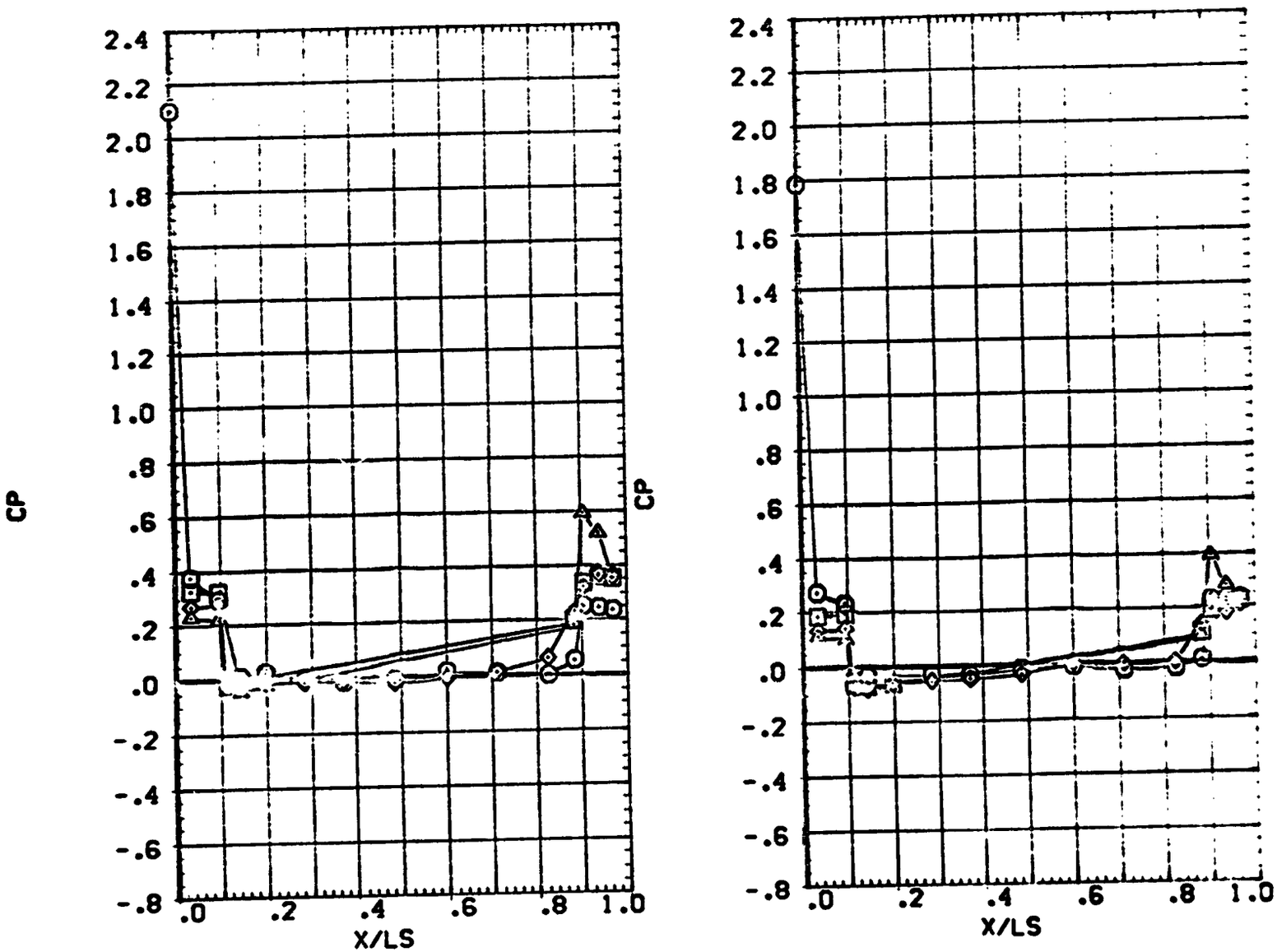
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 IA8 02A + S3 + T8 SRM BOOSTER (RBNSC8)

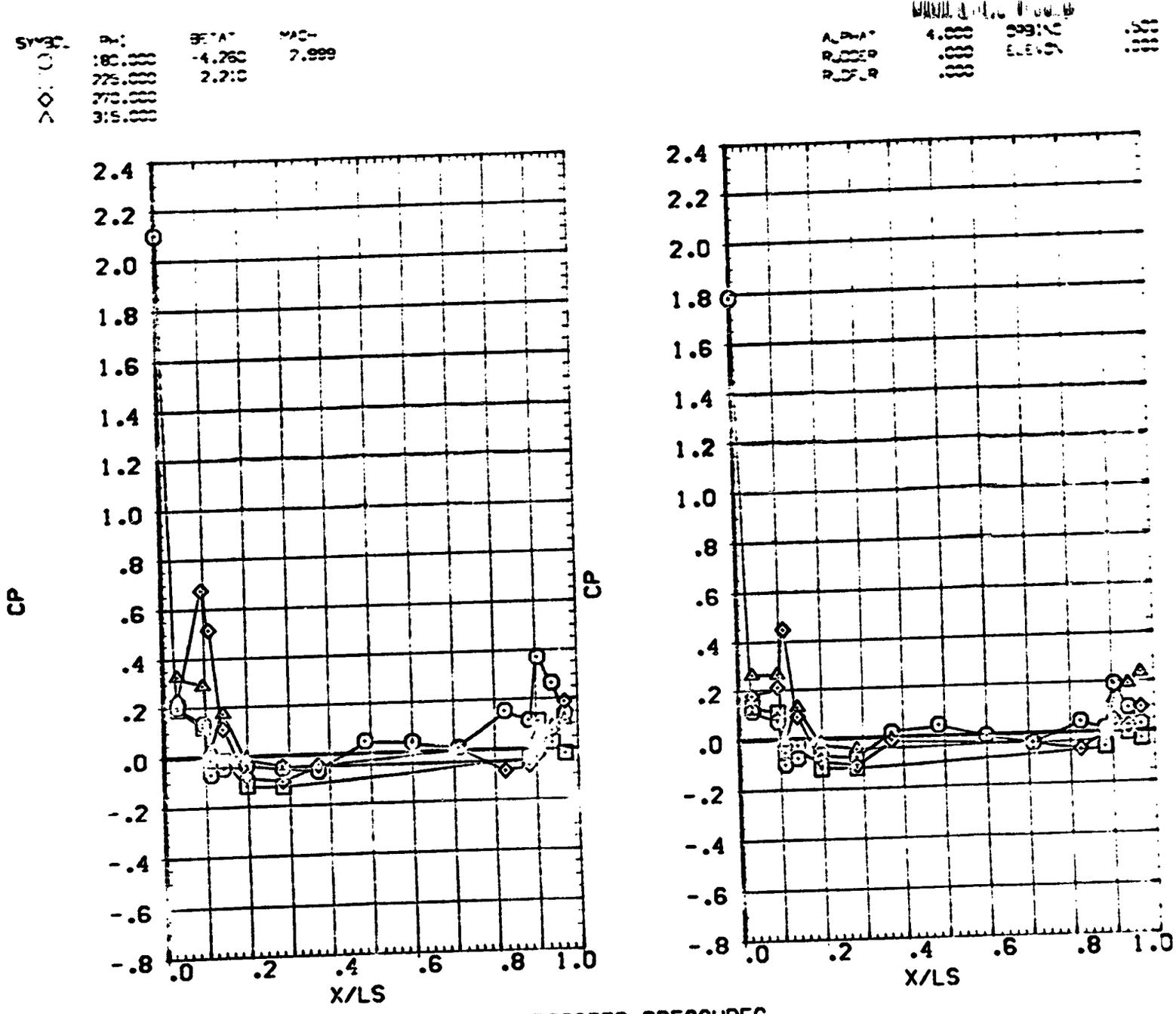
SYMBOL	PHI	BETAT	MACH
○	.000	-4.260	2.999
□	45.000	2.210	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	4.000	DEFINC	.000
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



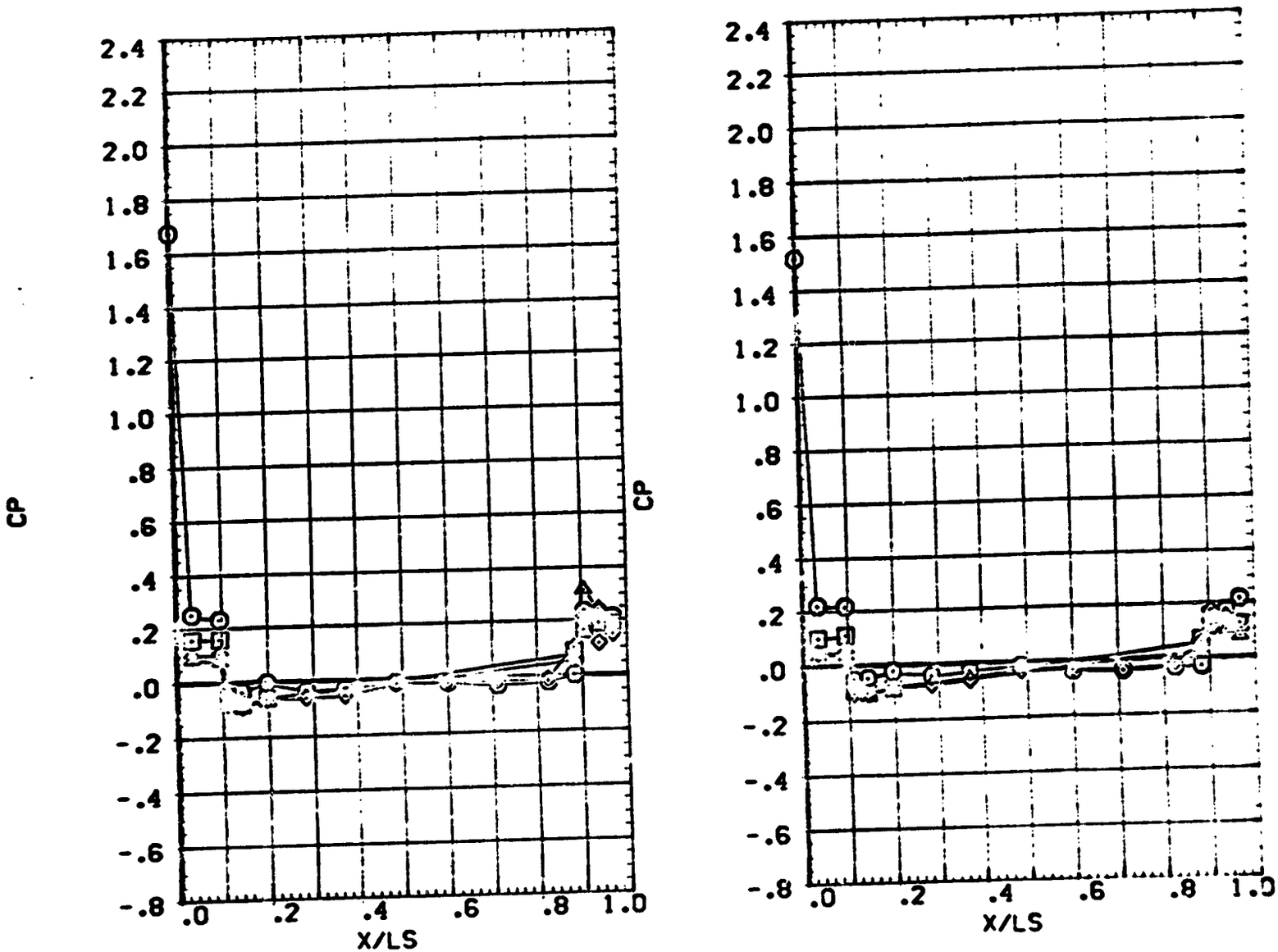
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES.

AMES 87 707 :A9 02A - S3 + 79 SRM BOOSTER (RBNSC8)

SYMBOL	PHI	BETAT	MACH
○	.000	4.370	2.999
◇	45.000	8.700	
△	90.000		
	135.000		

PARAMETRIC VALUES

ALPHAT	4.000	SRBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

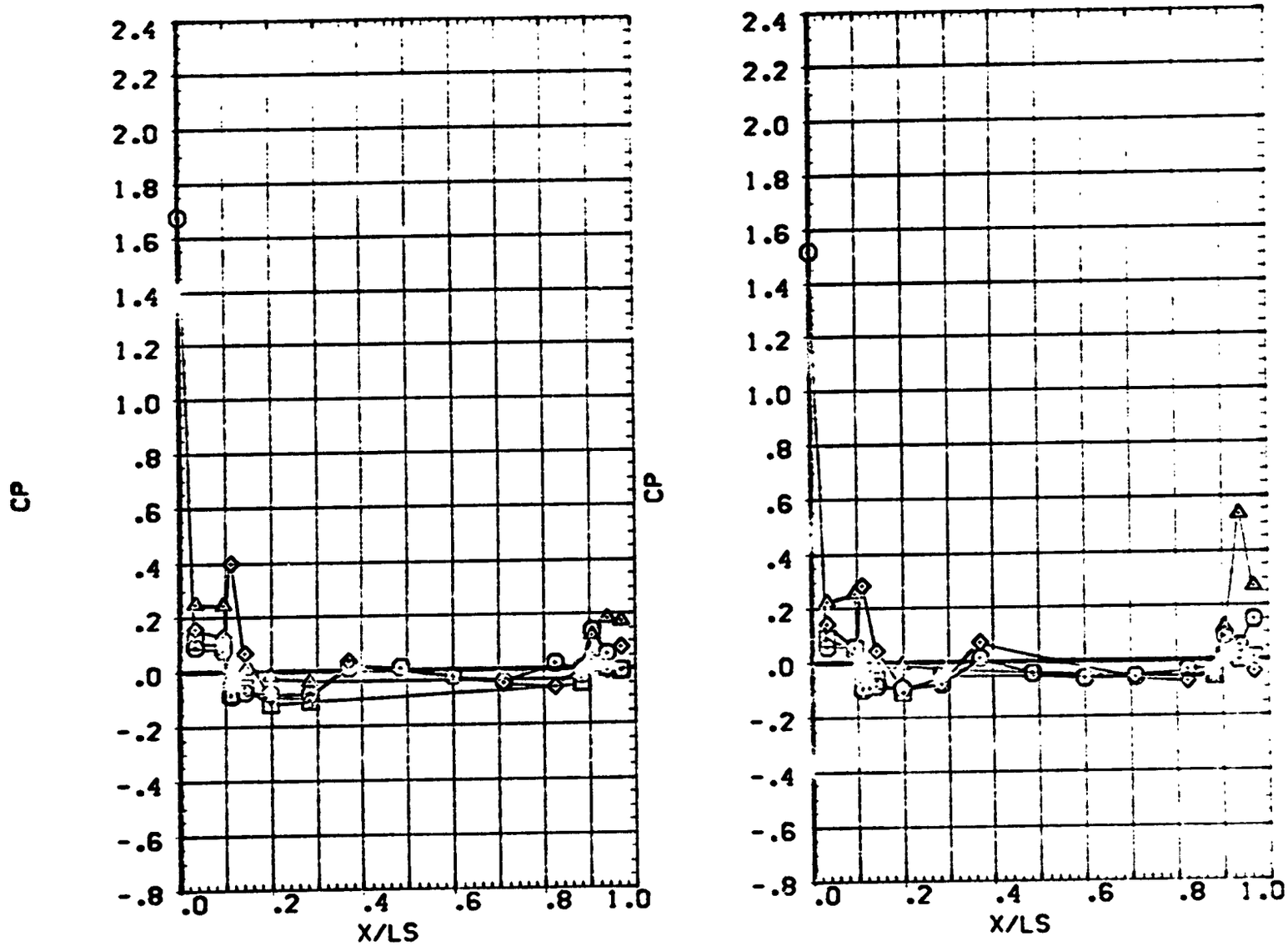
PAGE 727

AMES 87-707 IA9 02A + S3 + T9 SRM BOOSTER (RBNS08)

SYMBOL	PHI	BETAT	MACH
○	180.000	4.370	2.999
□	225.000	8.700	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



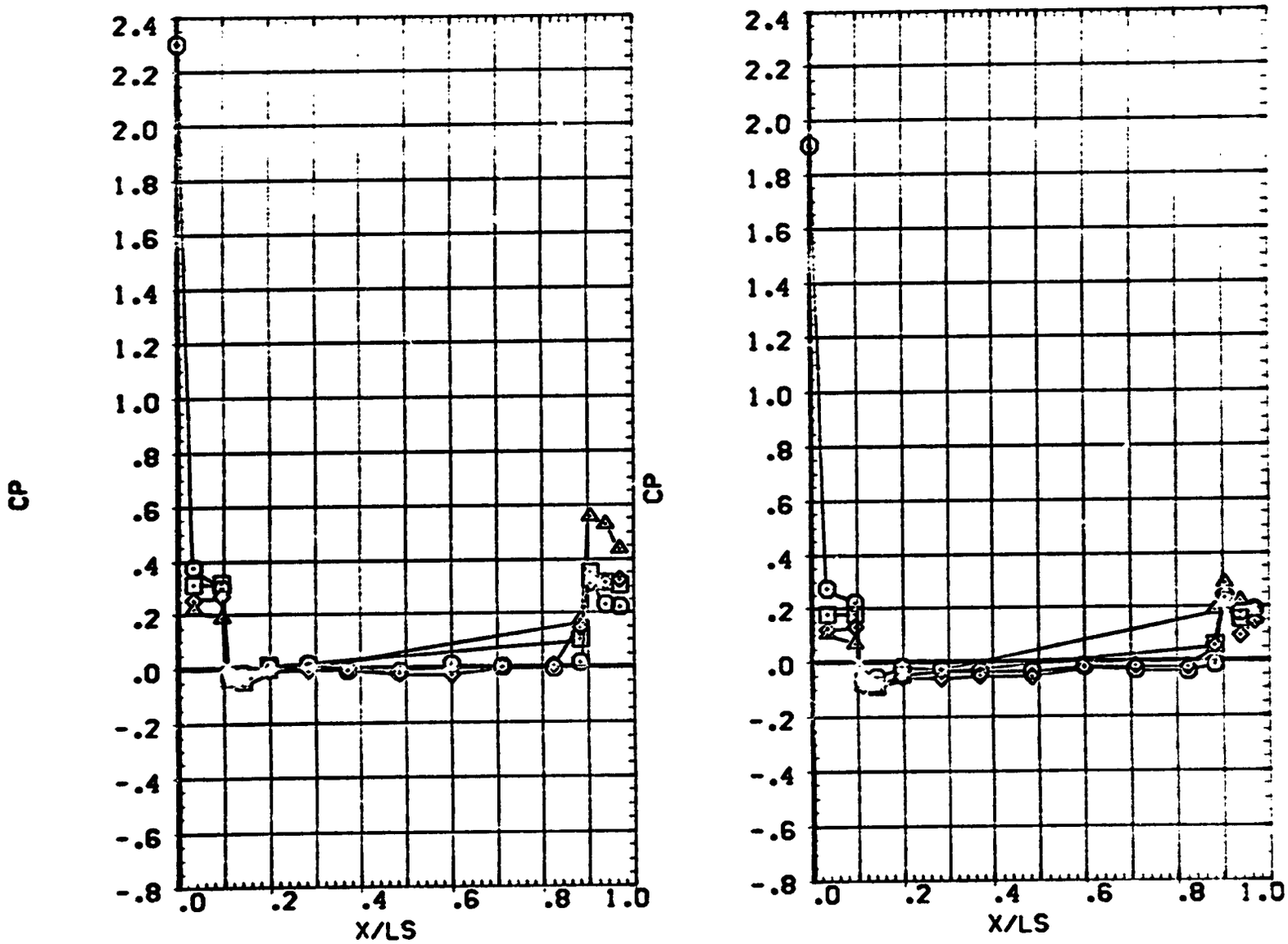
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AYES 87-707 :A8 C2A + S3 + :8 SRM BOOSTER (RB\SC8)

SYMBOL	PHI	BETA	MACH
○	.000	-4.330	3.502
□	45.000	2.260	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHA	4.000	SPOILER	.500
RUDDER	.000	ELEVON	.000
ROLLR	.000		



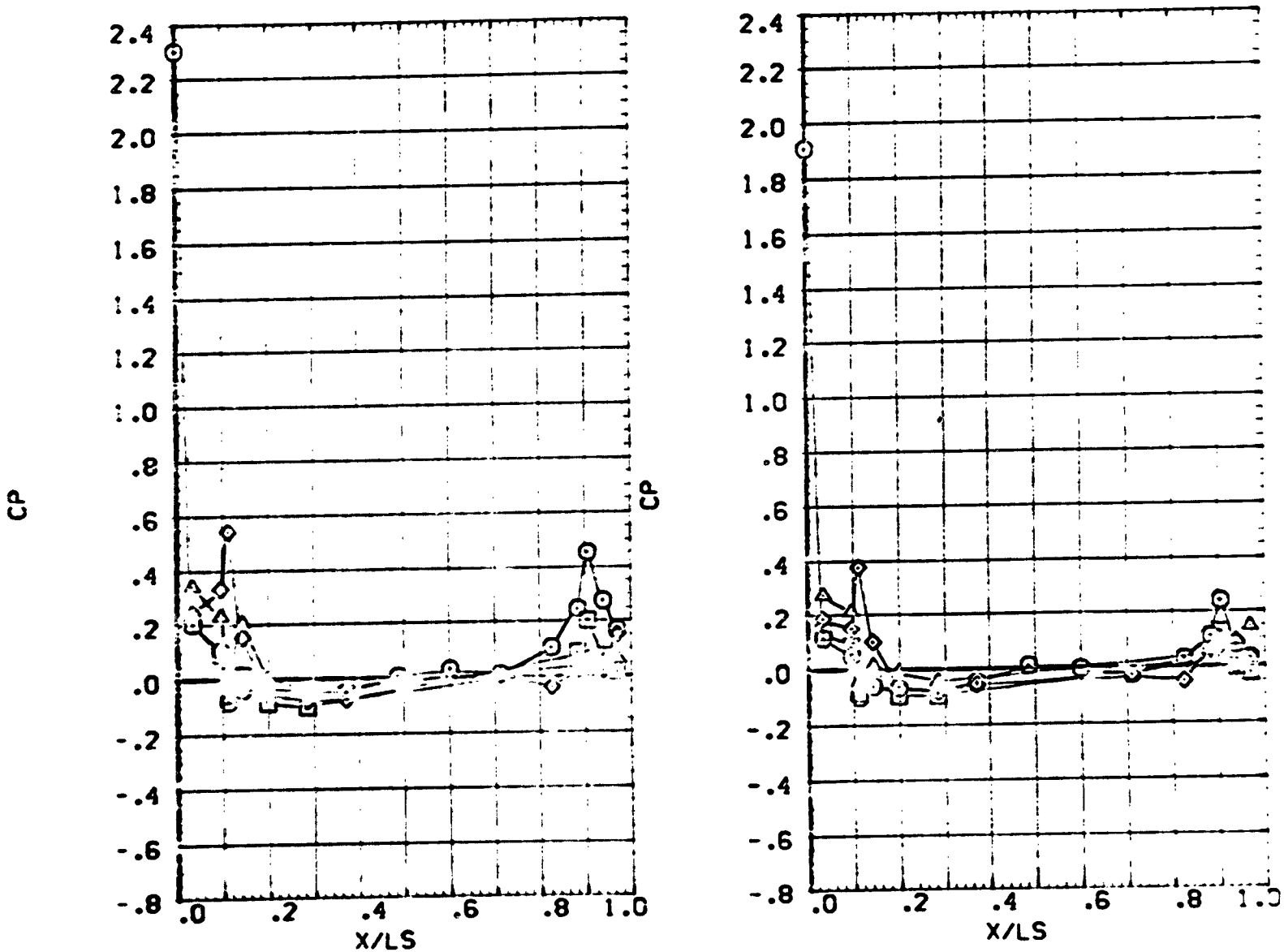
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-70? [49 02A - S3 - '9 SRM BOOSTER (RB\S08)

SYMBOL	MACH	BETAT	MACH
□	180.000	-4.330	3.502
◇	270.000	2.750	
△	315.000		

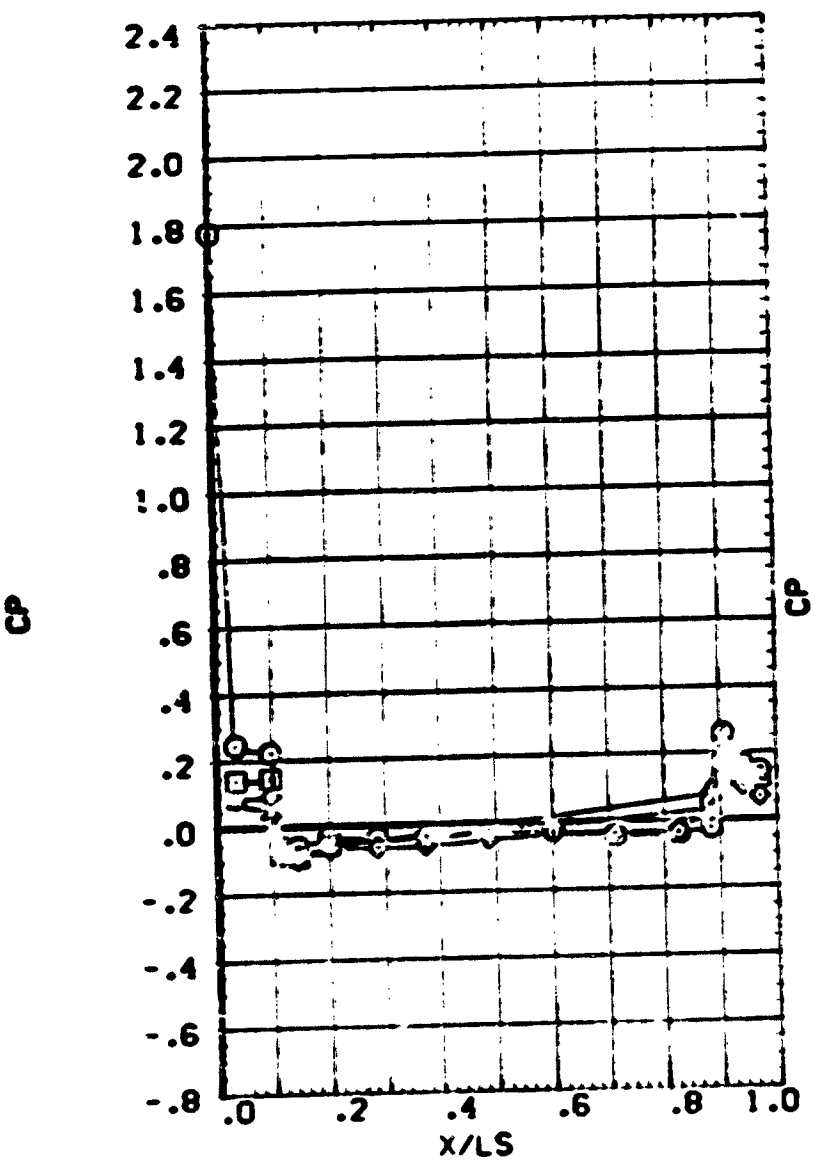
PARAMETRIC VALUES

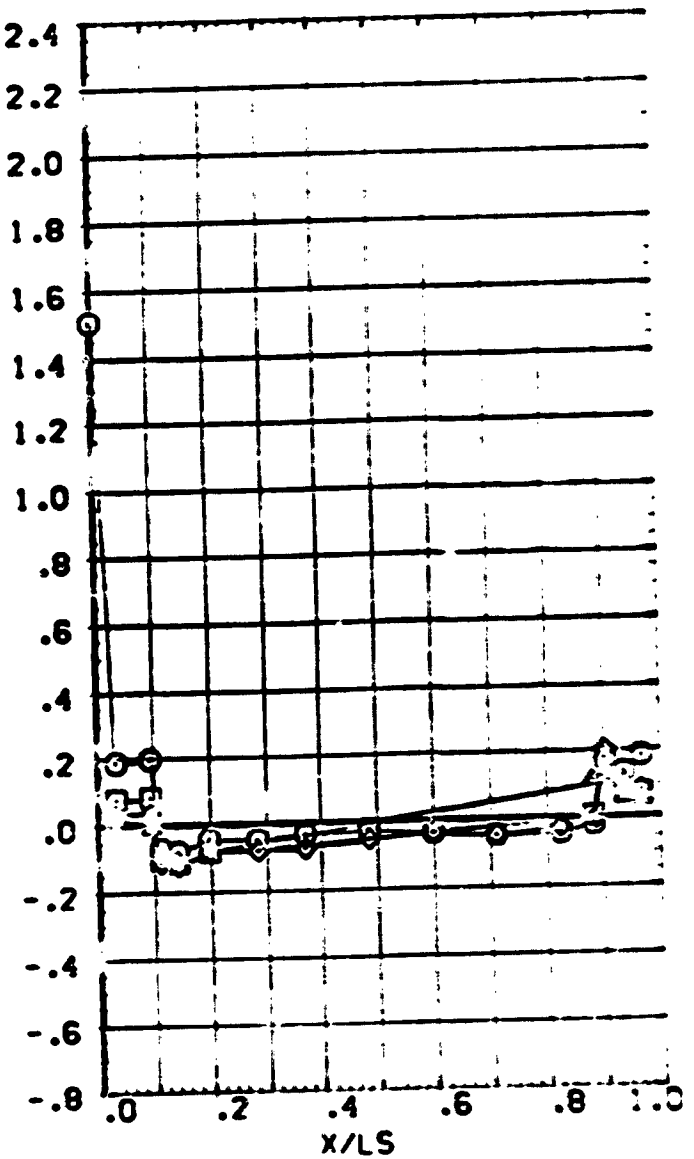
ALPHAT	4.000	[illegible]	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



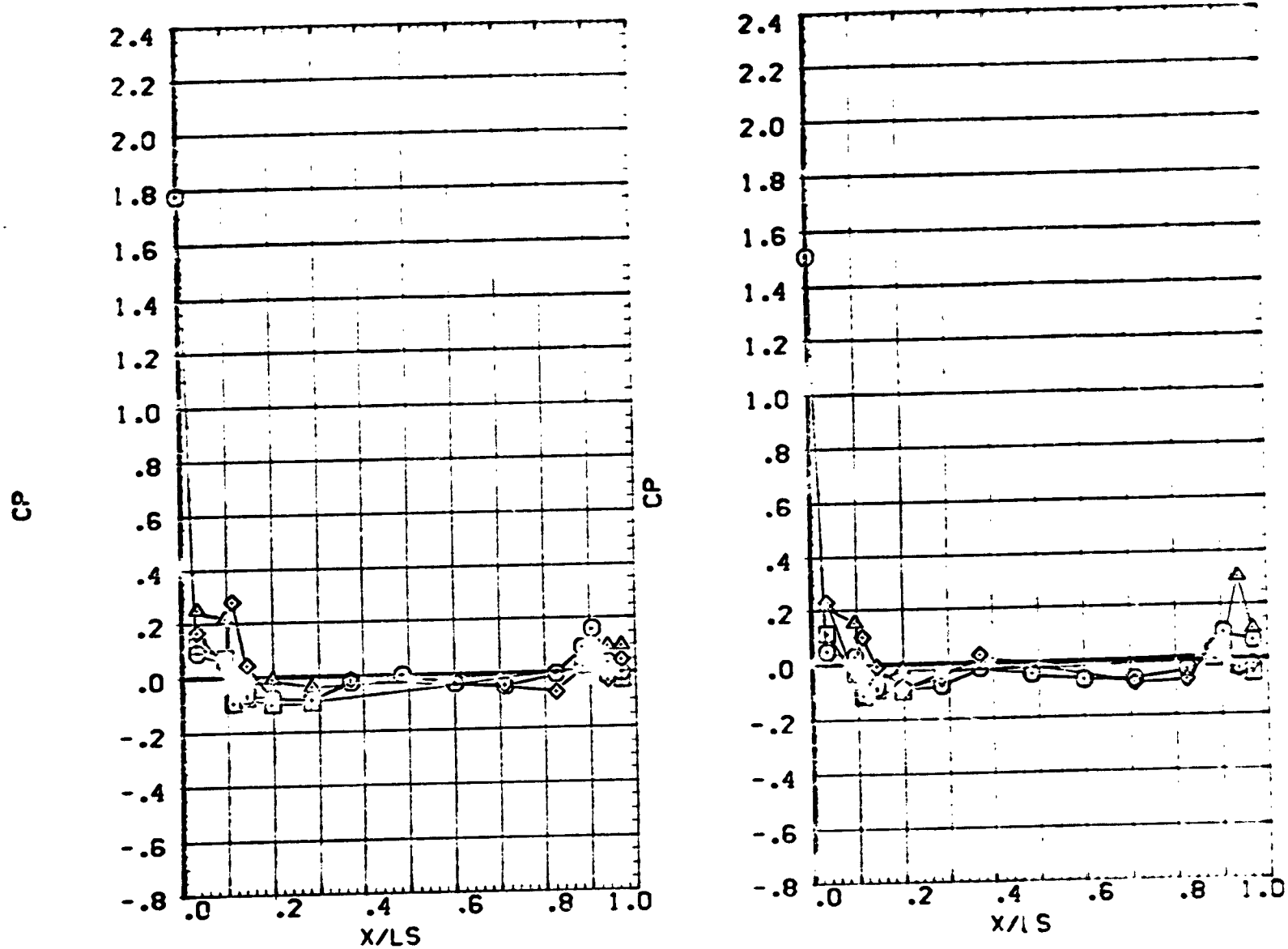
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 IA9 C2A - S3 - T9 SRM BOOSTER (R3\SC8)





LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



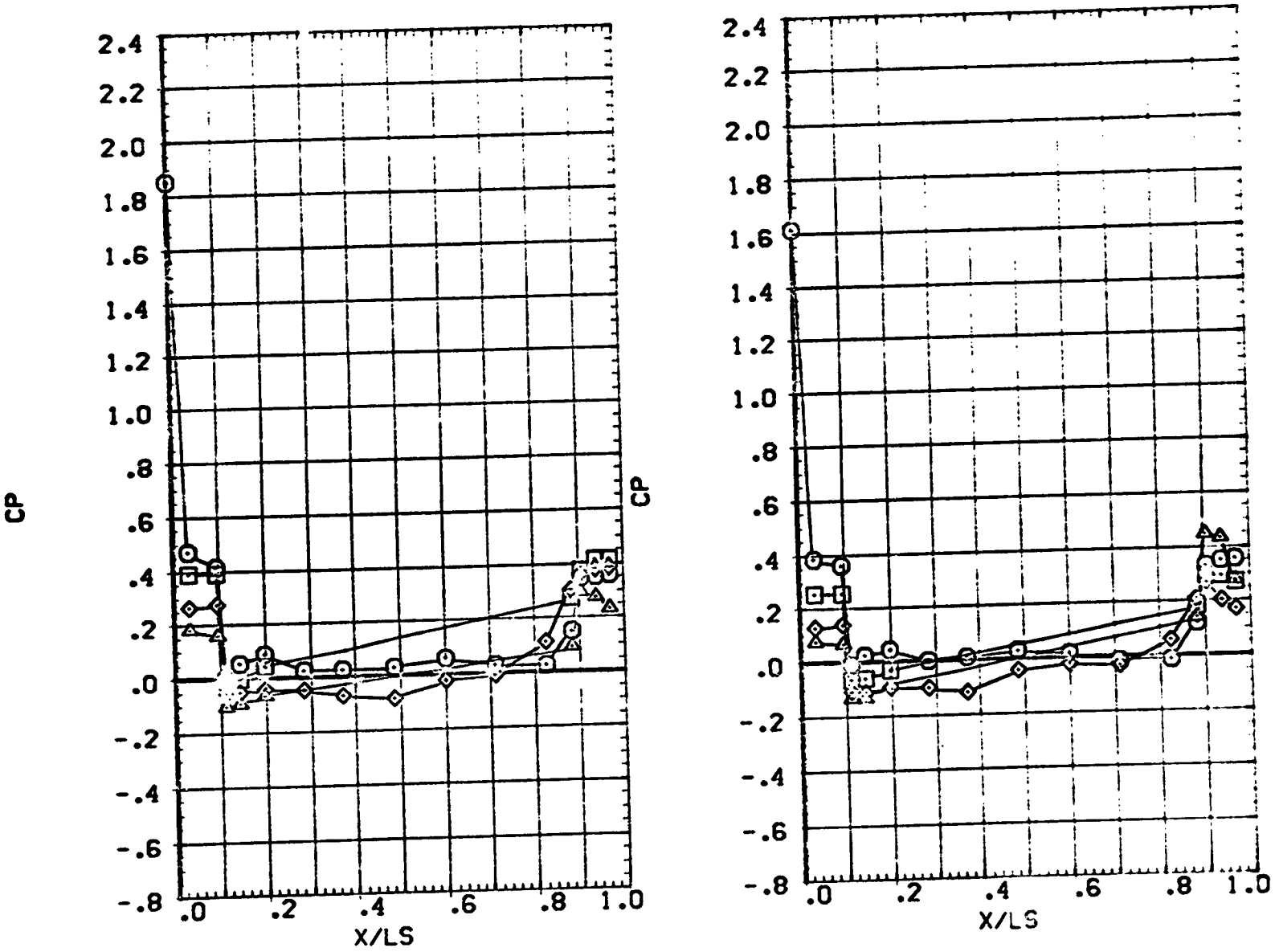
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES.

AMES 87-707 IA9 02A - S3 - T9 SRM BOOSTER (RBNSIC)

SYMBOL	PHI	BETAT	MACH
○	.000	-4.170	2.498
□	45.000	2.180	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

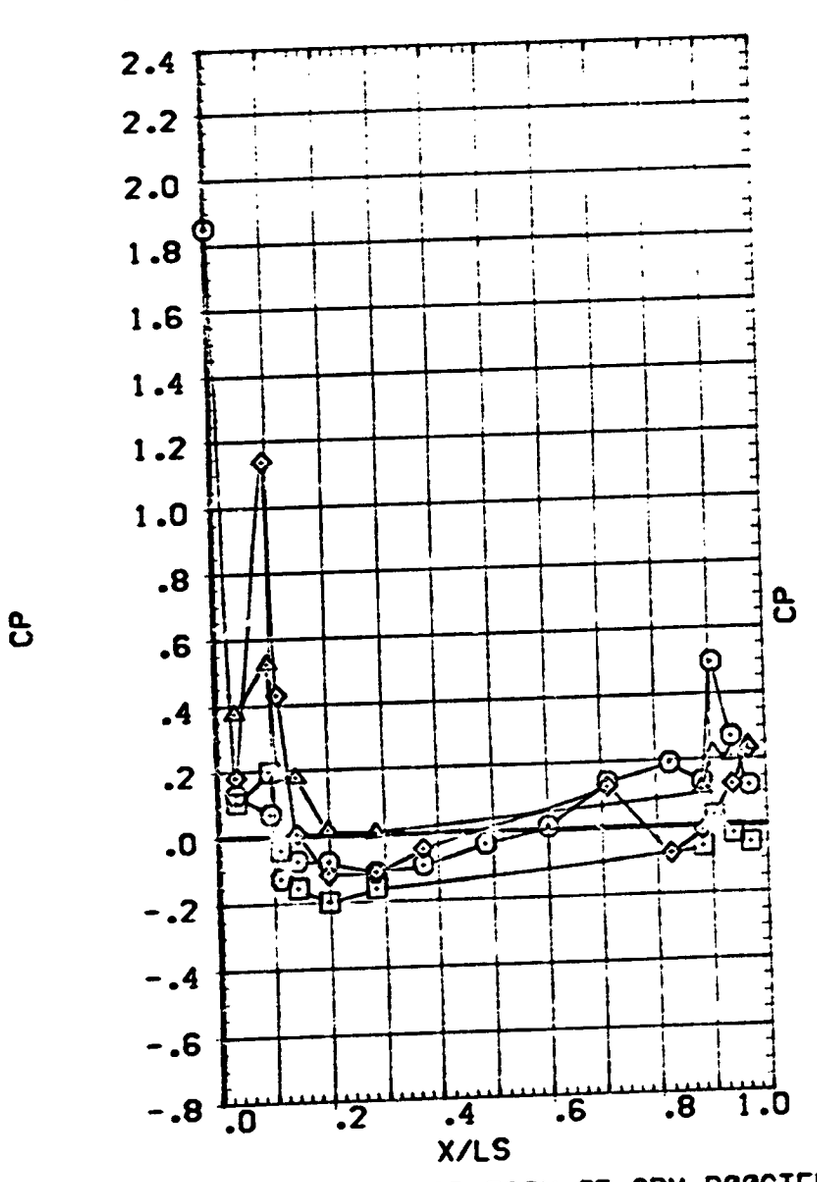
ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLP	.000		

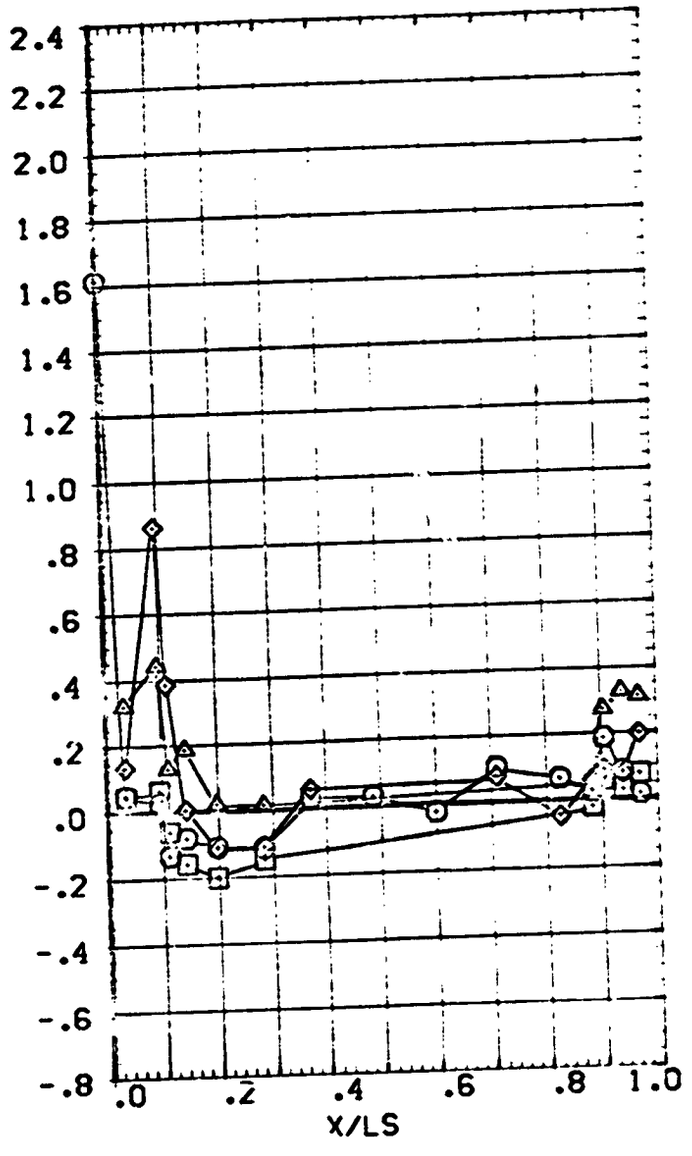


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

SYMBOL	PHI	BETA	MACH
○	180.000	-4.170	2.498
□	225.000	2.180	
◇	270.000		
△	315.000		

ALPHA	8.000	.500
RUDDER	.000	.000
ROLL	.000	





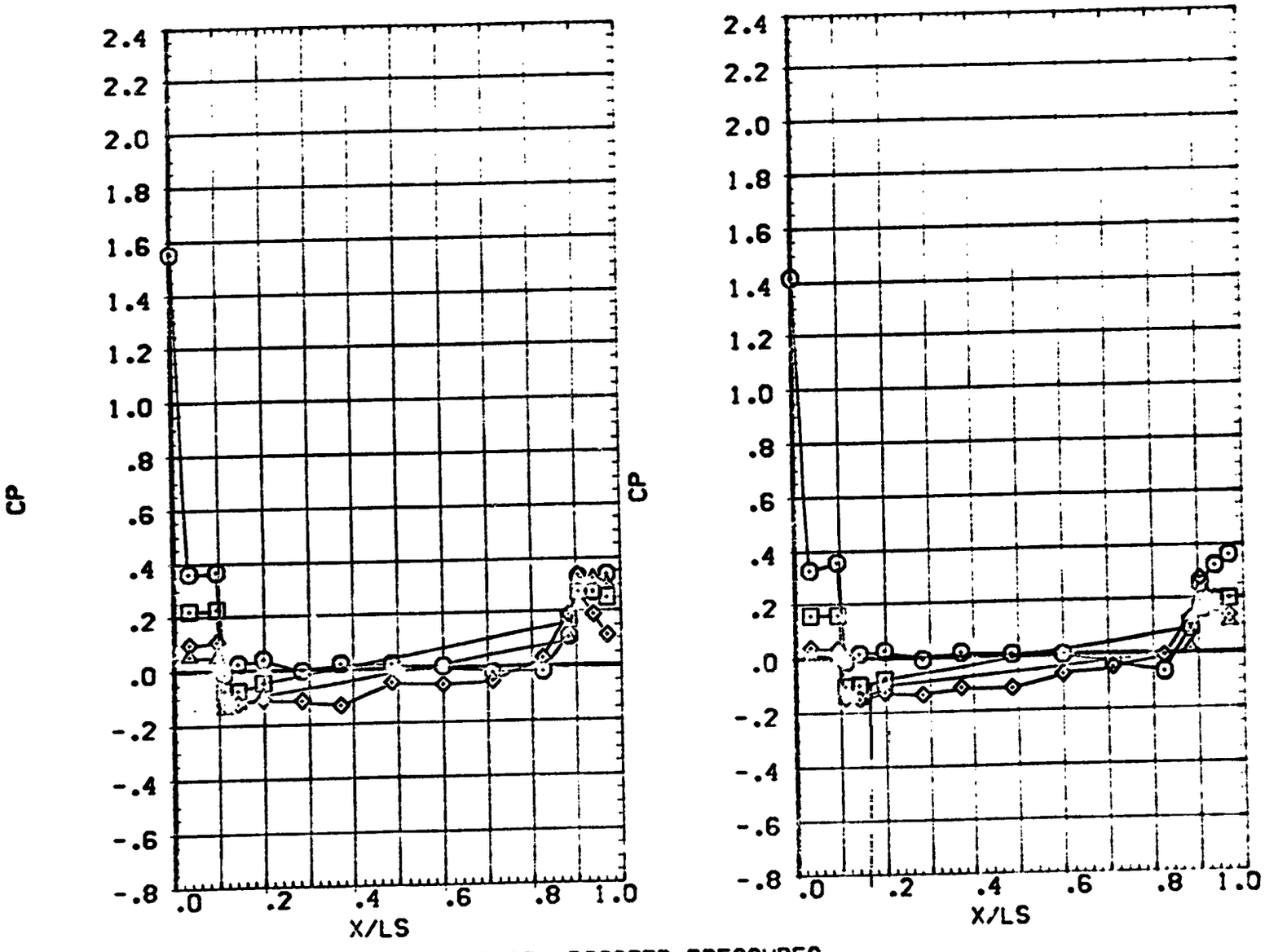
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 IA9 C2A - S3 - T9 SRM BOOSTER (RBASIC)

SYMBOL	PHI	BETA	MACH
○	.000	4.300	2.498
□	45.000	8.580	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHA	8.000	SPOILER	.000
RUDDER	.000	ELEVON	.000
ROLLER	.000		



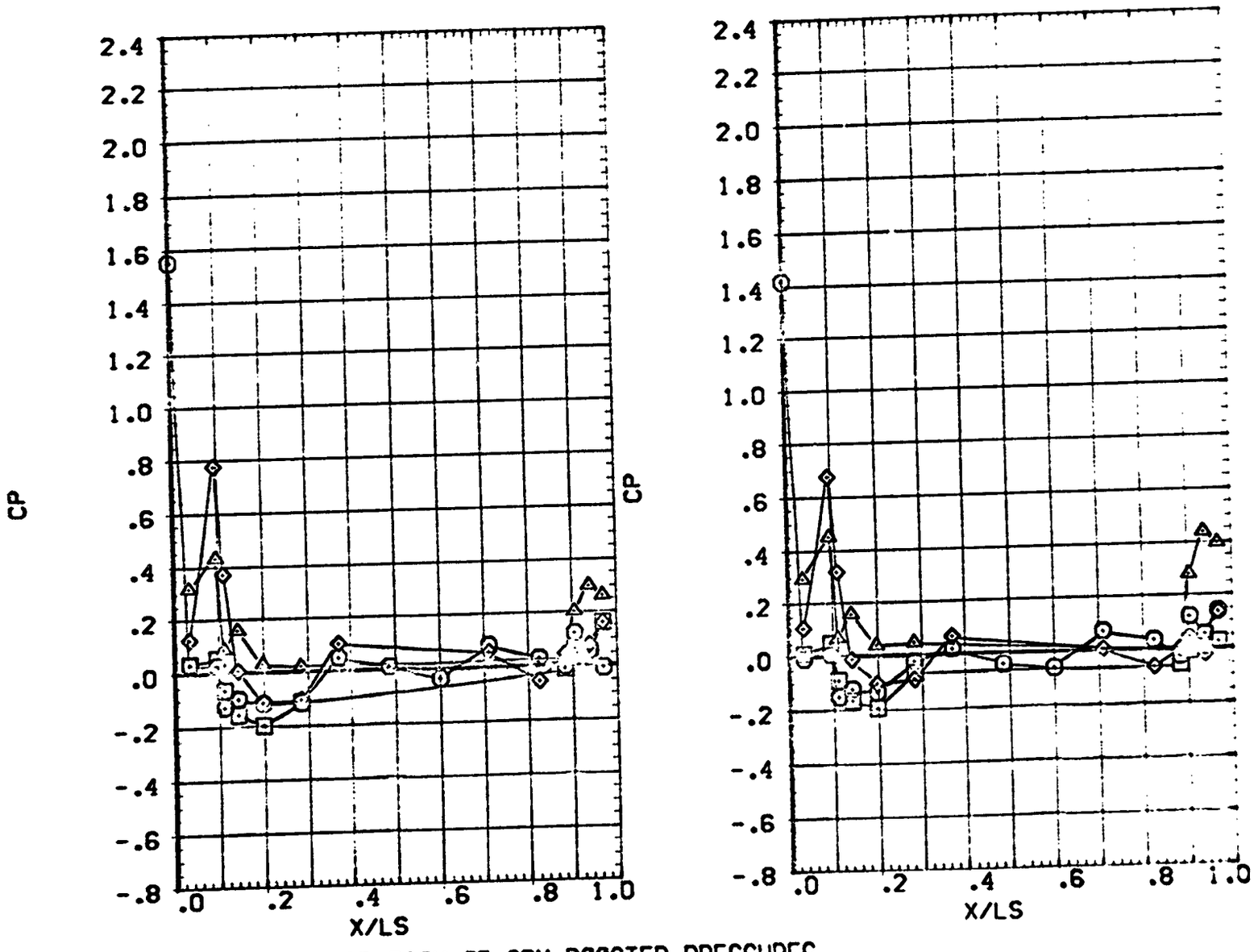
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 87-707 :A9 32A + S3 + T9 SRM BOOSTER (RBNSIC)

SYMBOL	PHI	BETA	MACH
○	180.000	4.320	2.498
□	225.000	8.580	
◇	270.000		
△	315.000		

PARAMETRIC VALUES

ALPHAT	8.000	SPOILER	.000
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



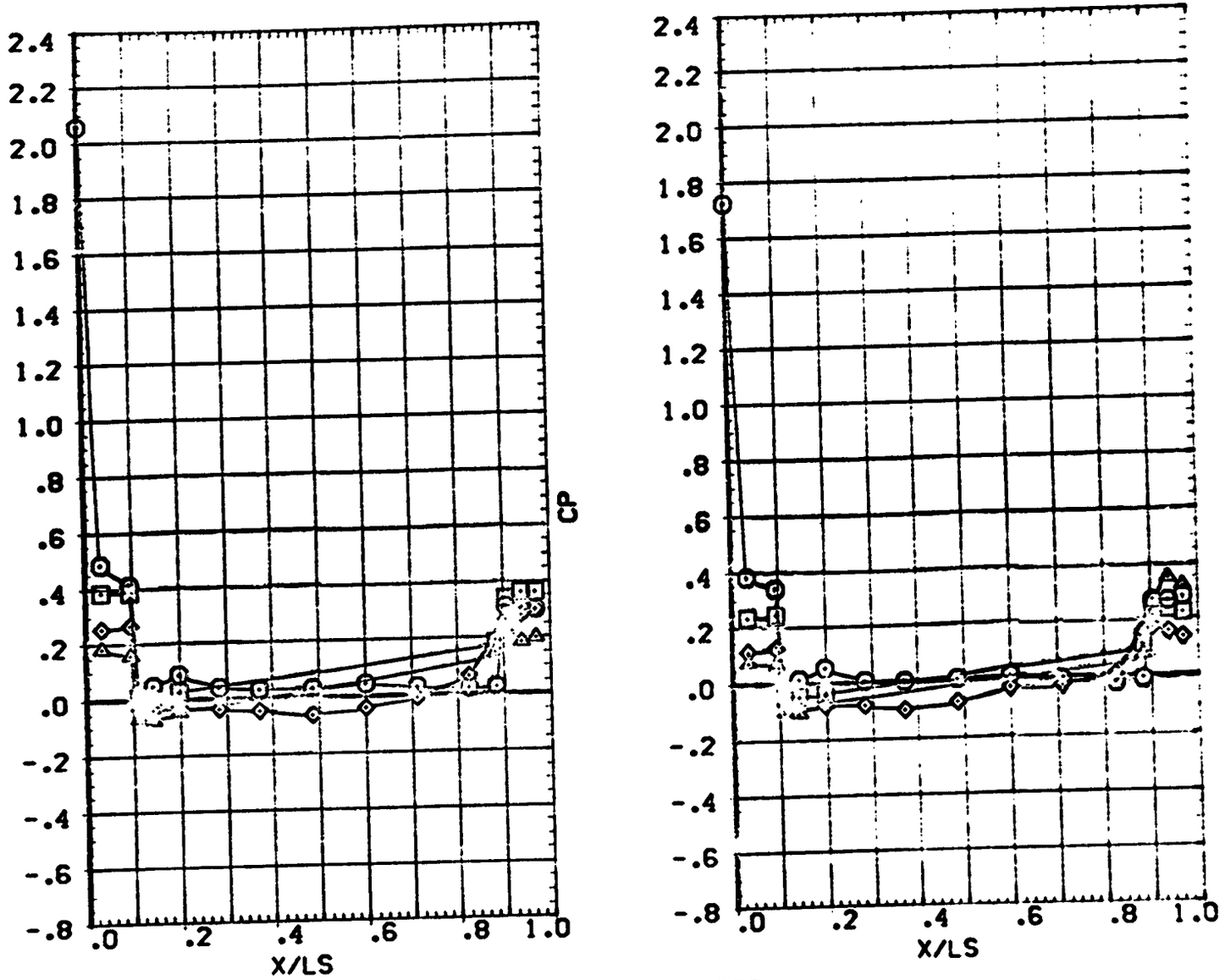
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AYES 87-707 IA9 C2A + S3 + T9 SRM BOOSTER (PBNS:C)

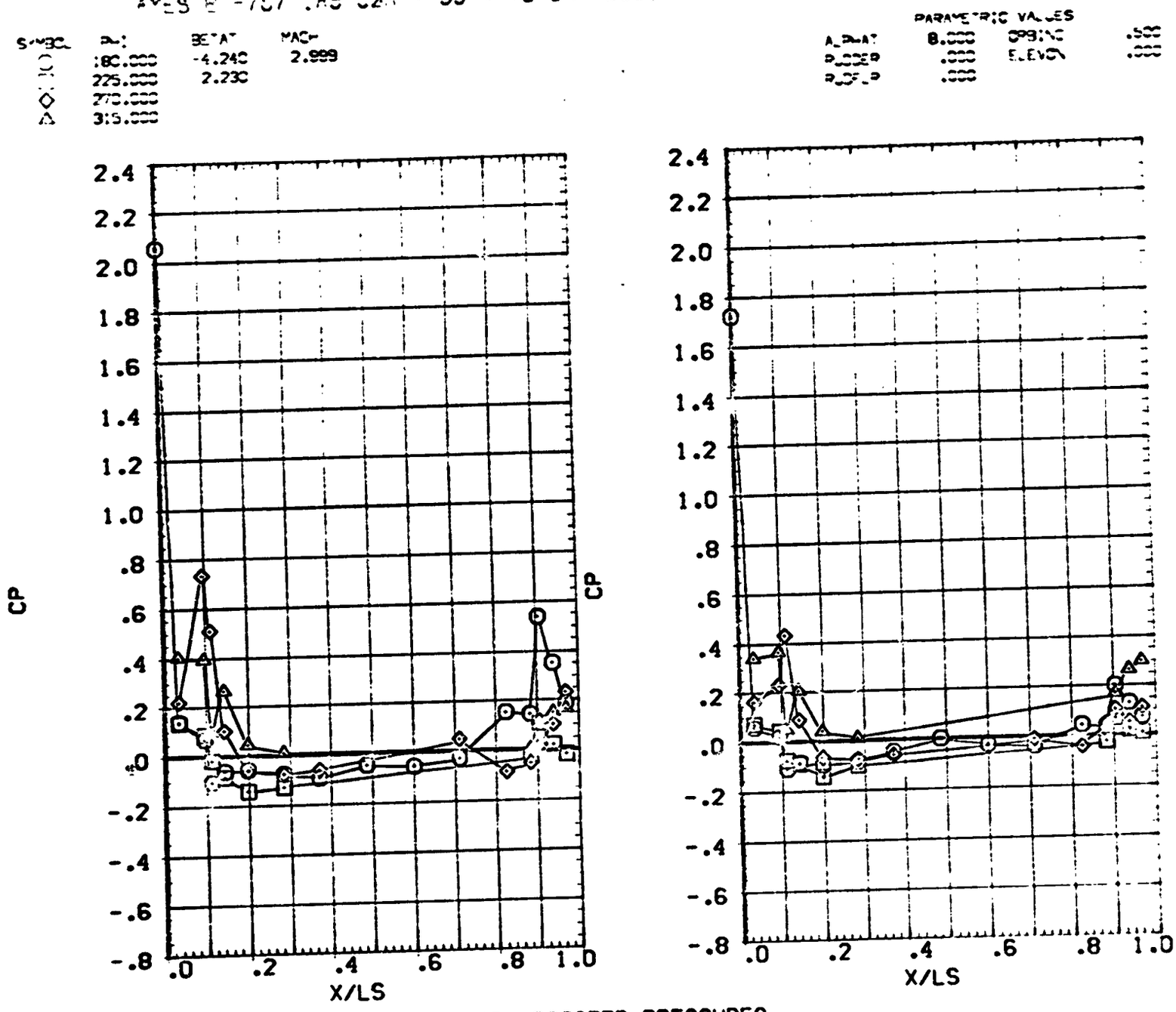
SYMBOL	PHI	BETAT	MACH
○	.000	-4.240	7.999
◇	45.000	2.230	
△	90.000		
	135.000		

PARAMETRIC VALUES

ALPHAT	8.000	SREFC	.500
RUDDER	.000	ELEVON	.000
RUDDER	.000		



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



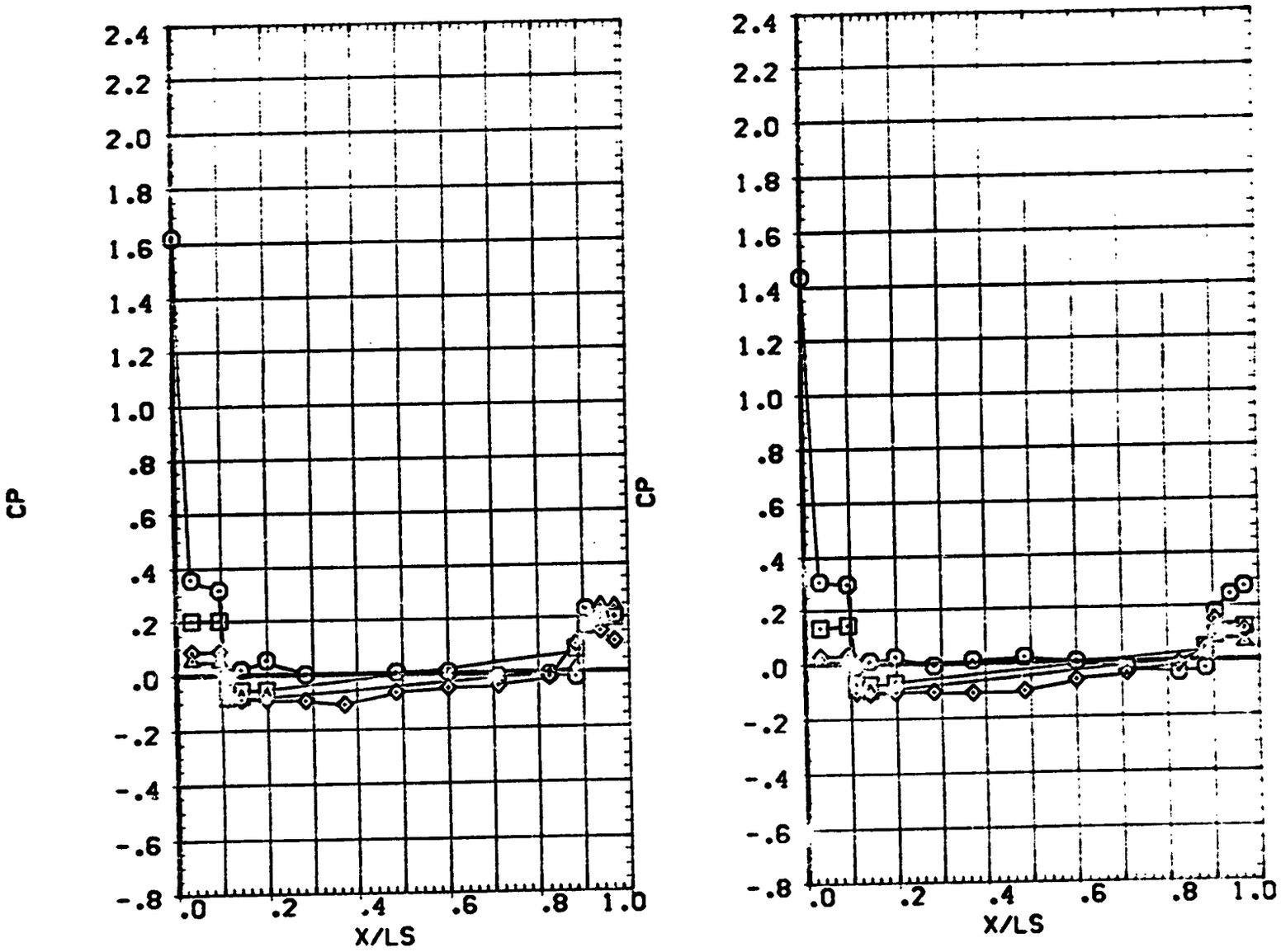
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 IAB C2A + S3 + T9 SRM BOOSTER (RBNSIC)

SYMBOL	PHI	BETA	MACH
○	.000	4.400	2.999
□	45.000	8.740	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHA	8.000	SPOILER	.000
RUDDER	.000	ELEVON	.000
ROLLER	.000		

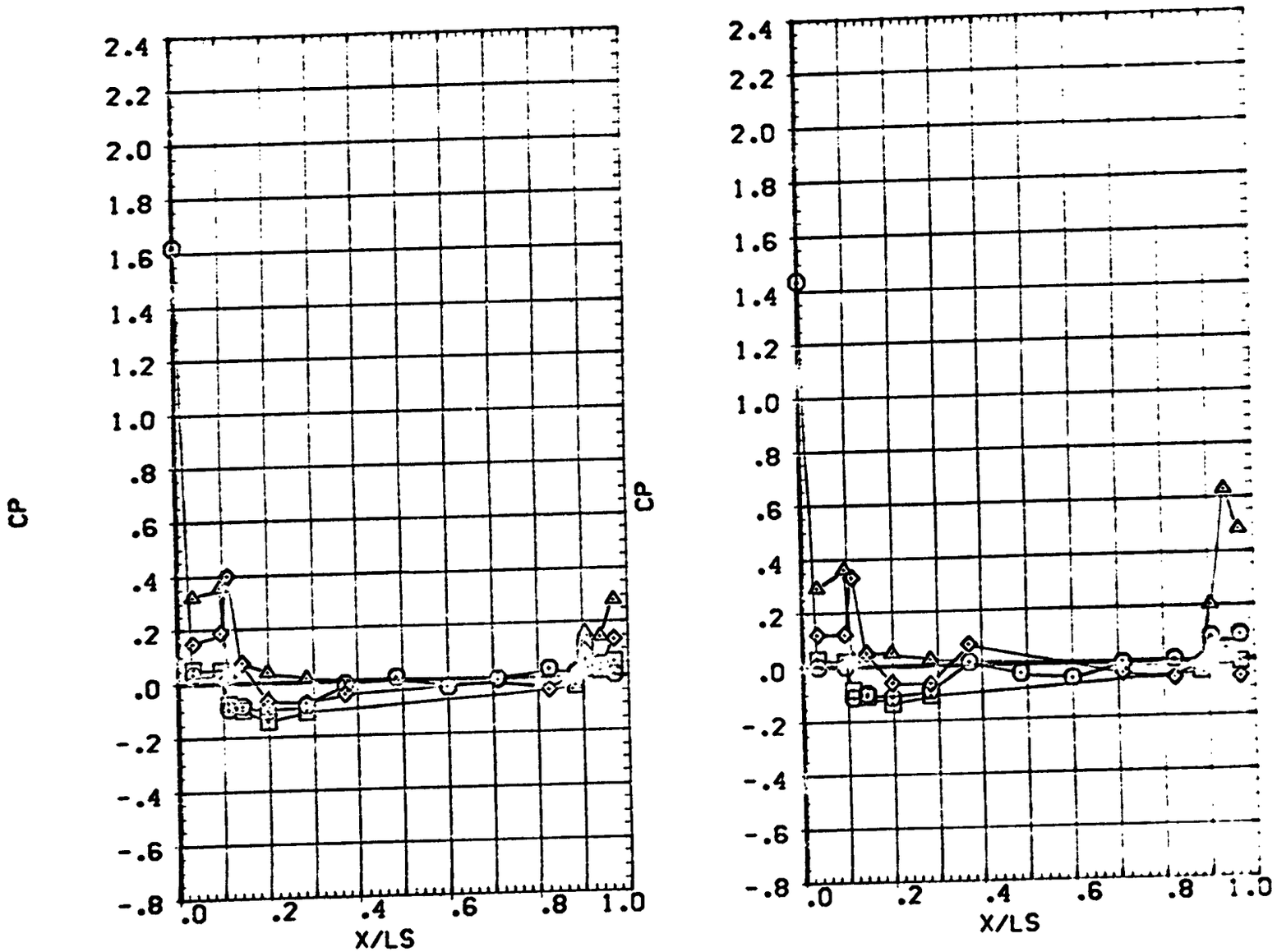


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

SYMBOL	PHI	BETA	MACH
○	180.0000	4.400	2.999
◇	225.0000	8.740	
△	270.0000		
	315.0000		

PARAMETRIC VALUES

ALPHAT	8.000	DBY:C	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



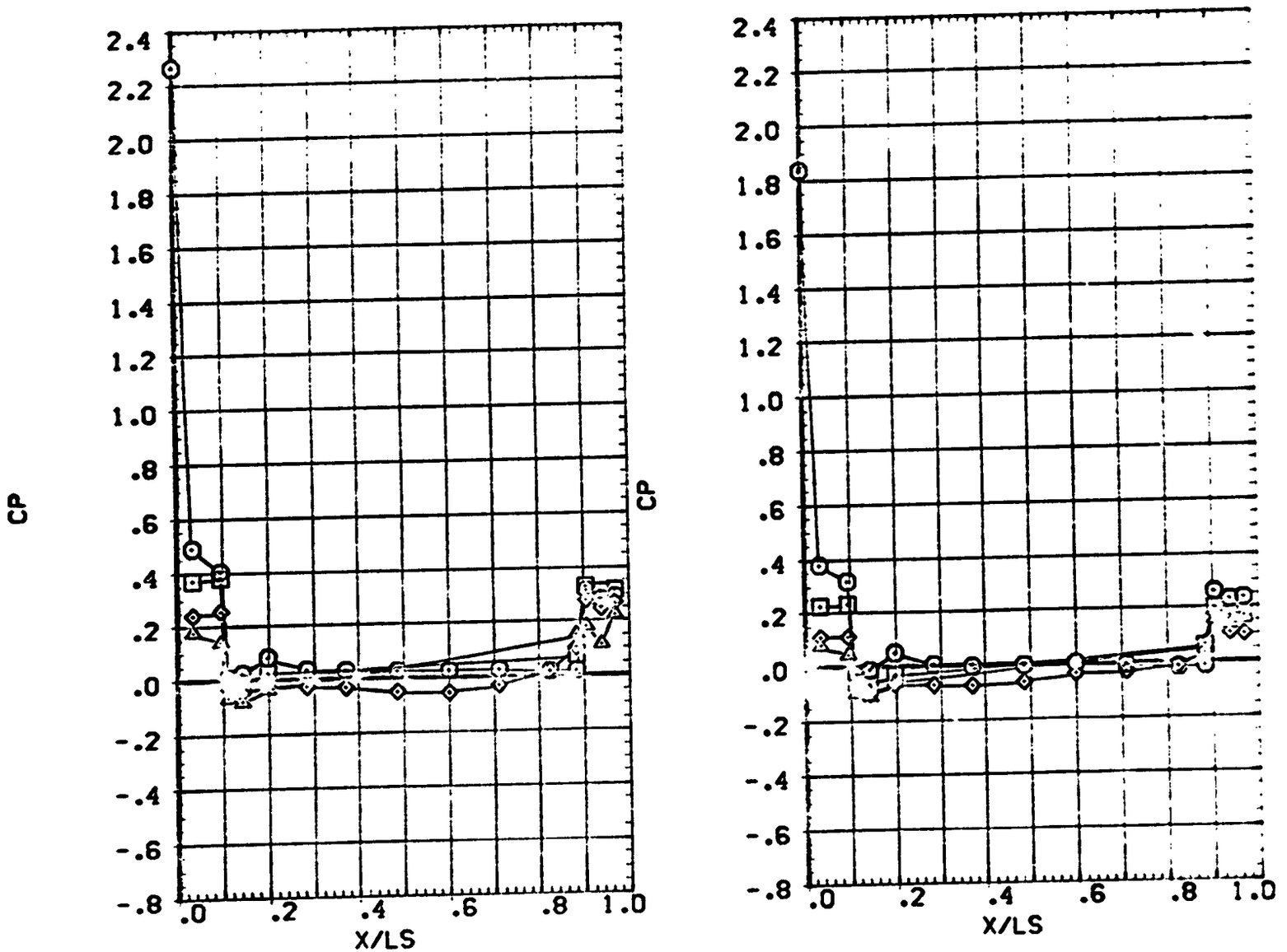
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 SRM BOOSTER (RBNS:0)

SYMBOL	PHI	BETA	MACH
○	.000	-4.310	3.502
▽	45.000	2.760	
◇	90.000		
△	135.000		

PARAMETRIC VALUES

ALPHAT	8.000	ORBIT	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



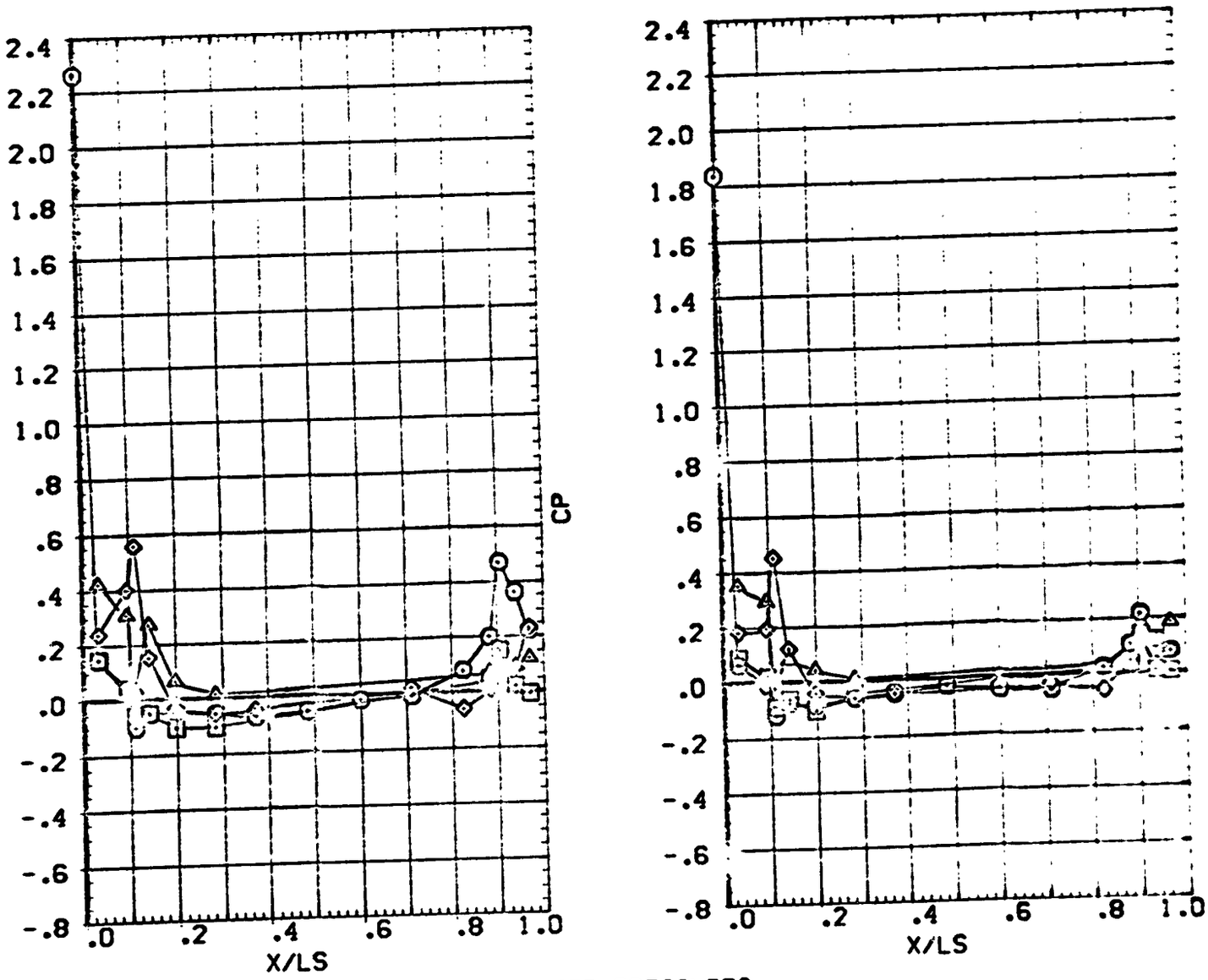
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 87-707 :A9 C2A - S3 - '9 SRV BOOSTER (RB\S:C)

SYMBOL	PHI	BETA	MACH
	180.000	-4.310	3.502
	225.000	2.760	
	270.000		
	315.000		

PARAMETRIC VALUES

ALPHA	8.000	OPTIC	.500
RUDDER	.000	ELEVON	.000
RUDDER	.000		



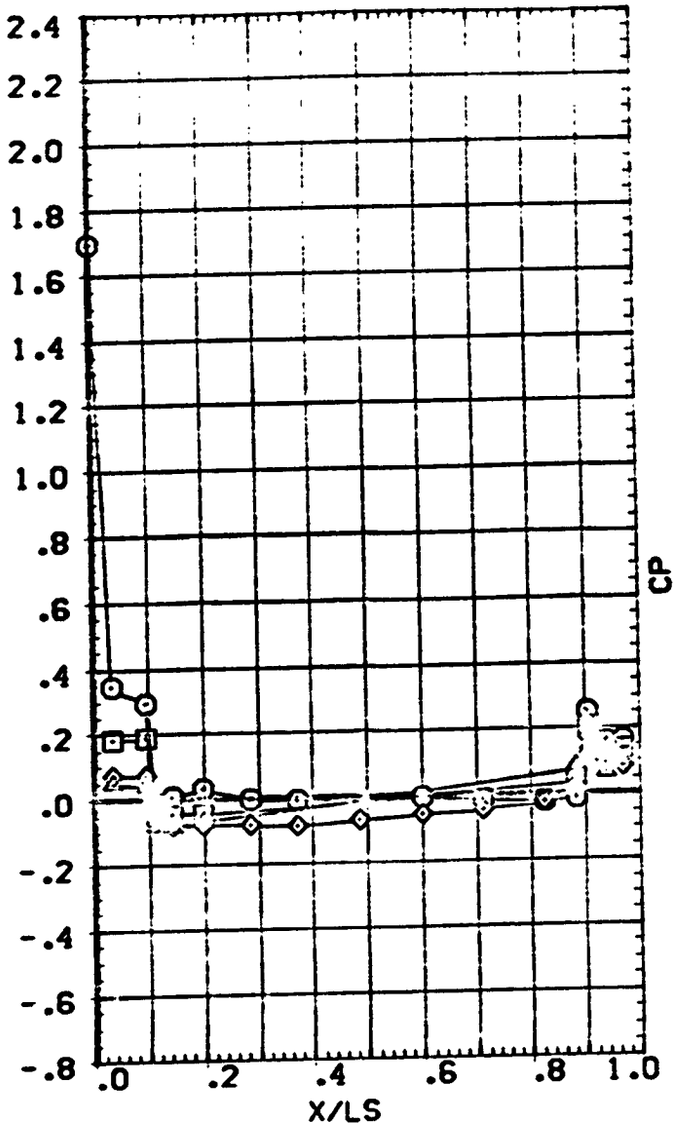
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

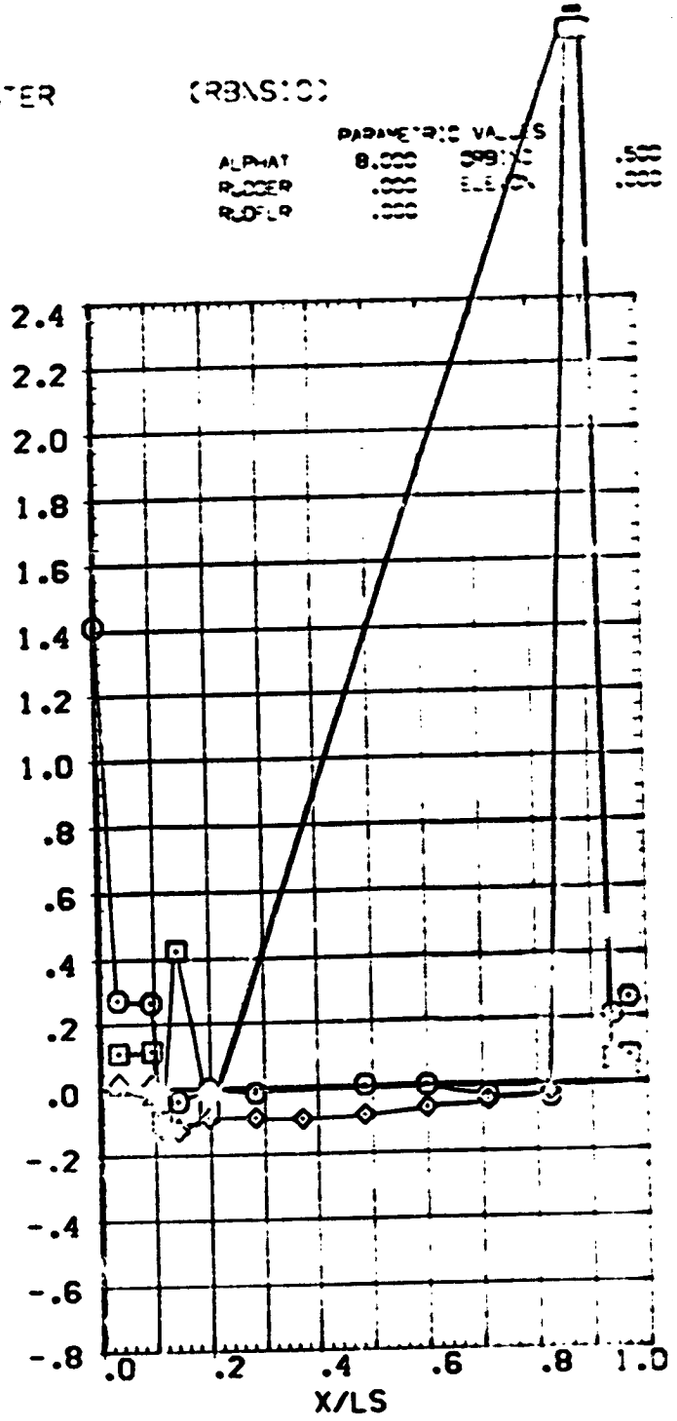
AMES 87-707 :A9 02A + S3 + T9 SRM BOOSTER (RBASIC)

SYMBOL	PHI	BETA	MACH
○	.000	4.480	3.502
□	45.000	8.000	
◇	90.000		
△	135.000		

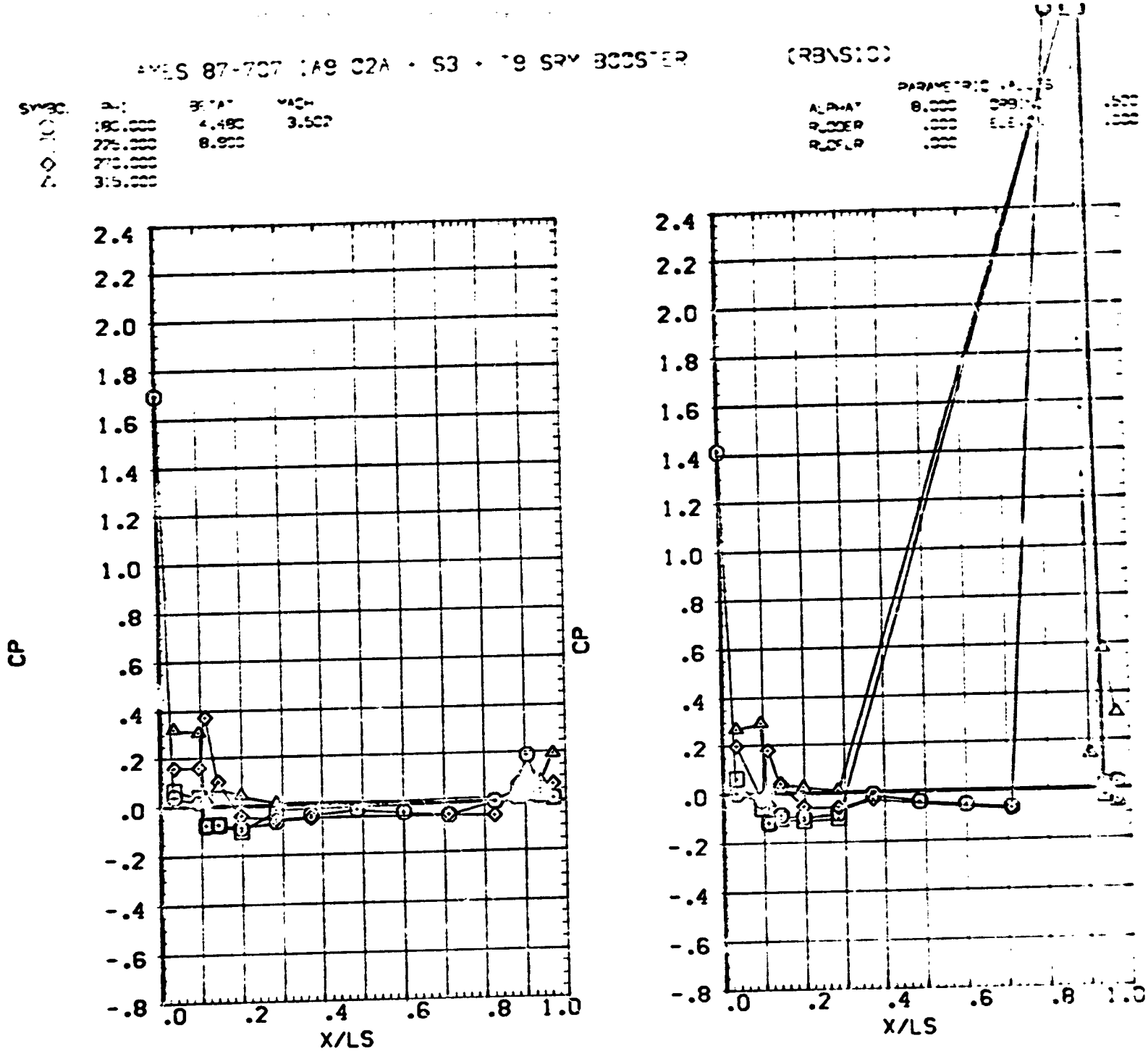
PARAMETRIC VALUES

ALPHAT	8.000	SREF	.500
RUDDER	.000	ELEVON	.000
RUDFLP	.000		

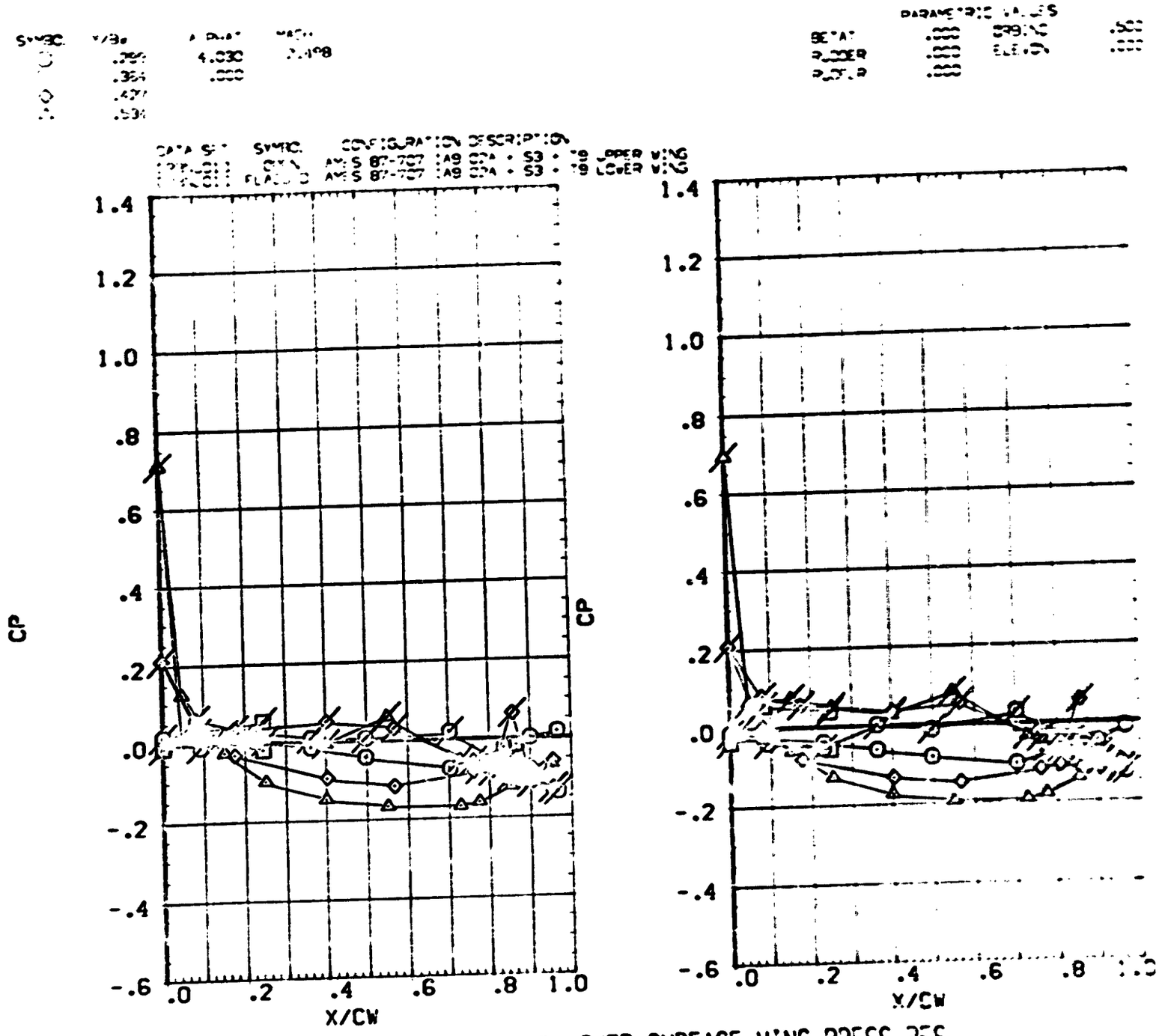




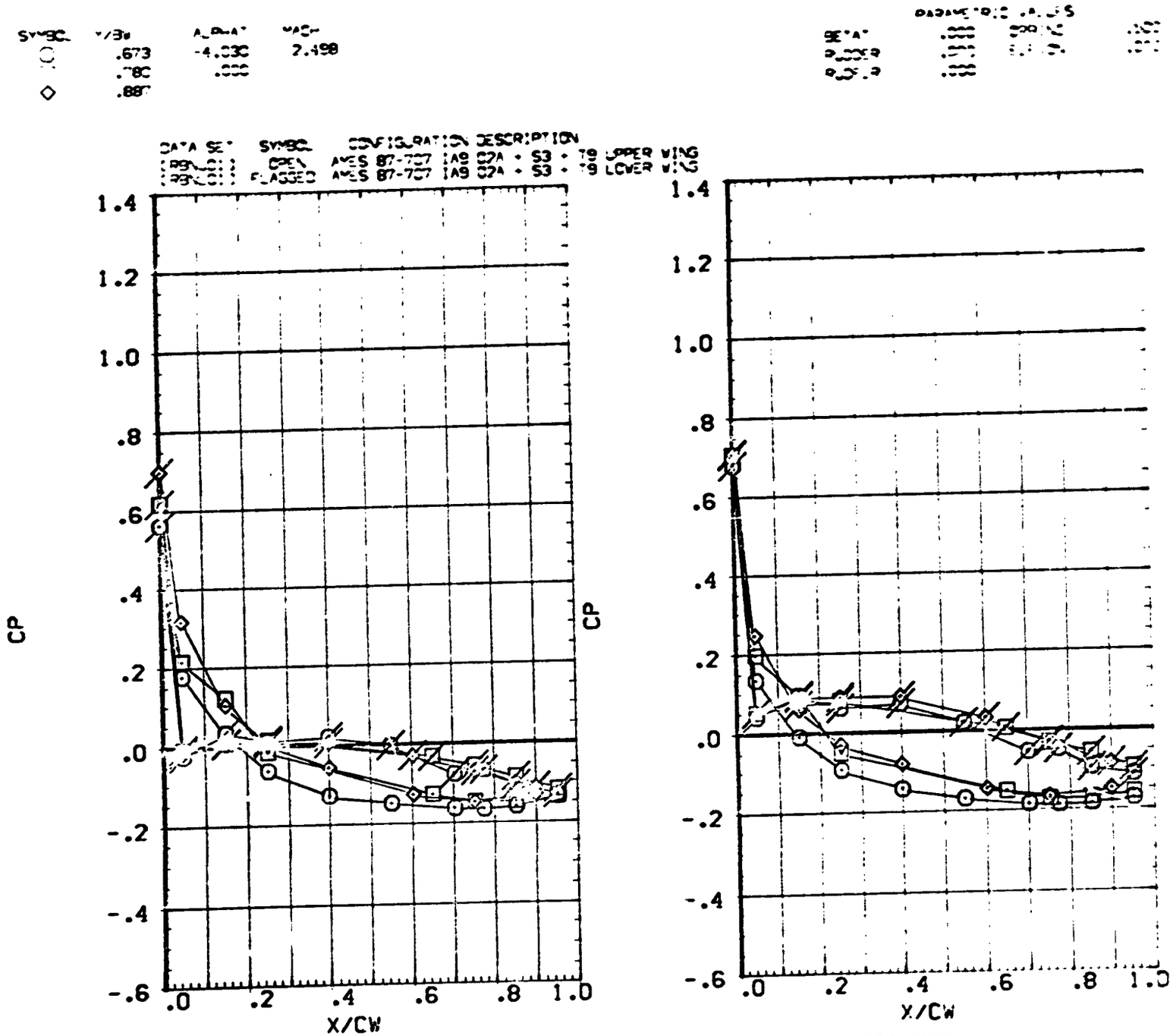
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



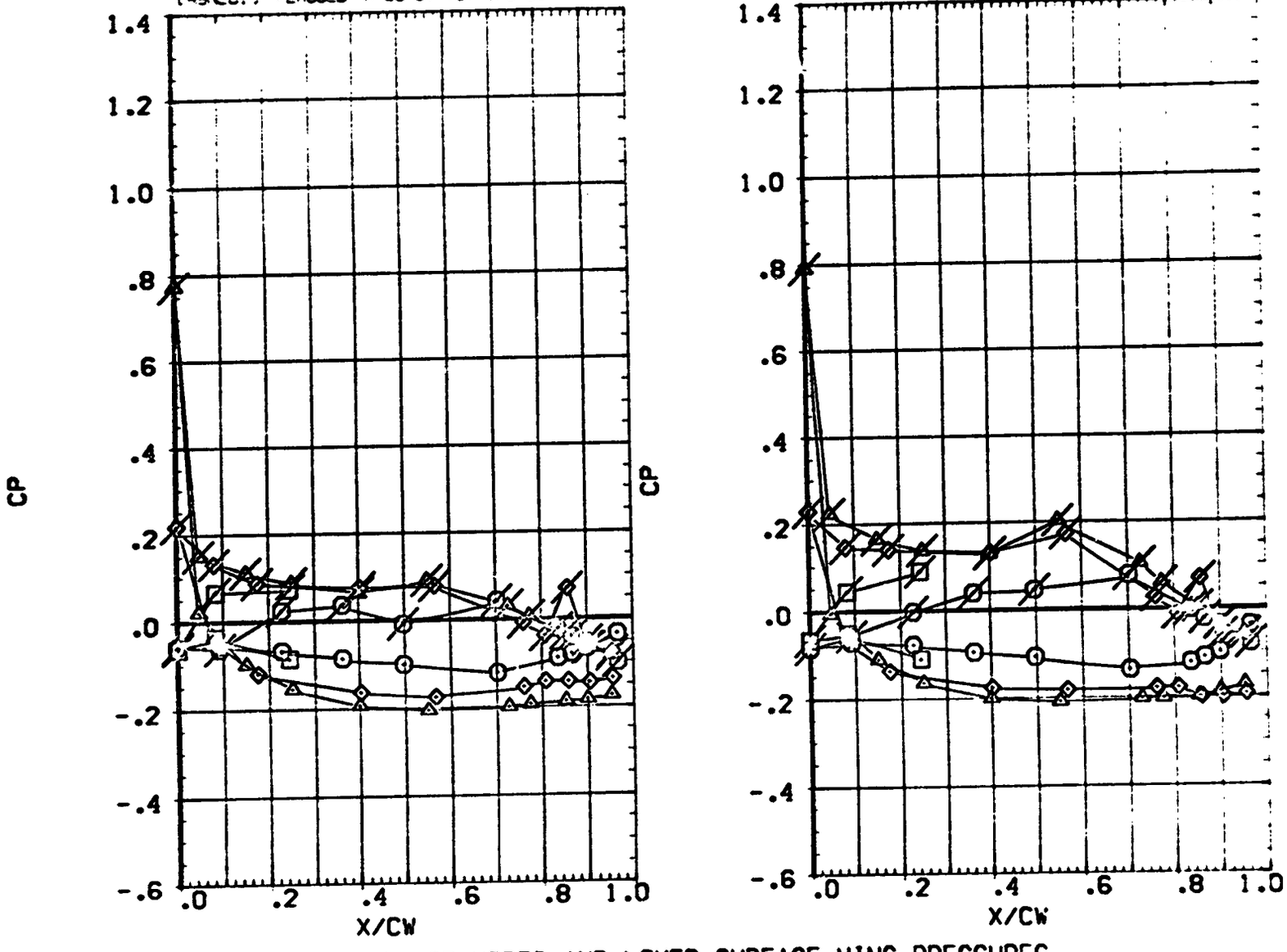
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B/2	ALPHA	MACH
○	.299	3.900	2.498
□	.364	8.010	
◇	.427		
△	.534		

PARAMETRIC VALUES

BETAT	.000	DBDINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RUN 01)	OPEN	AMES 87-707 (A9 C2A + S3 + T9 UPPER WING
(RUN 01)	FLAGGED	AMES 87-707 (A9 C2A + S3 + T9 LOWER WING



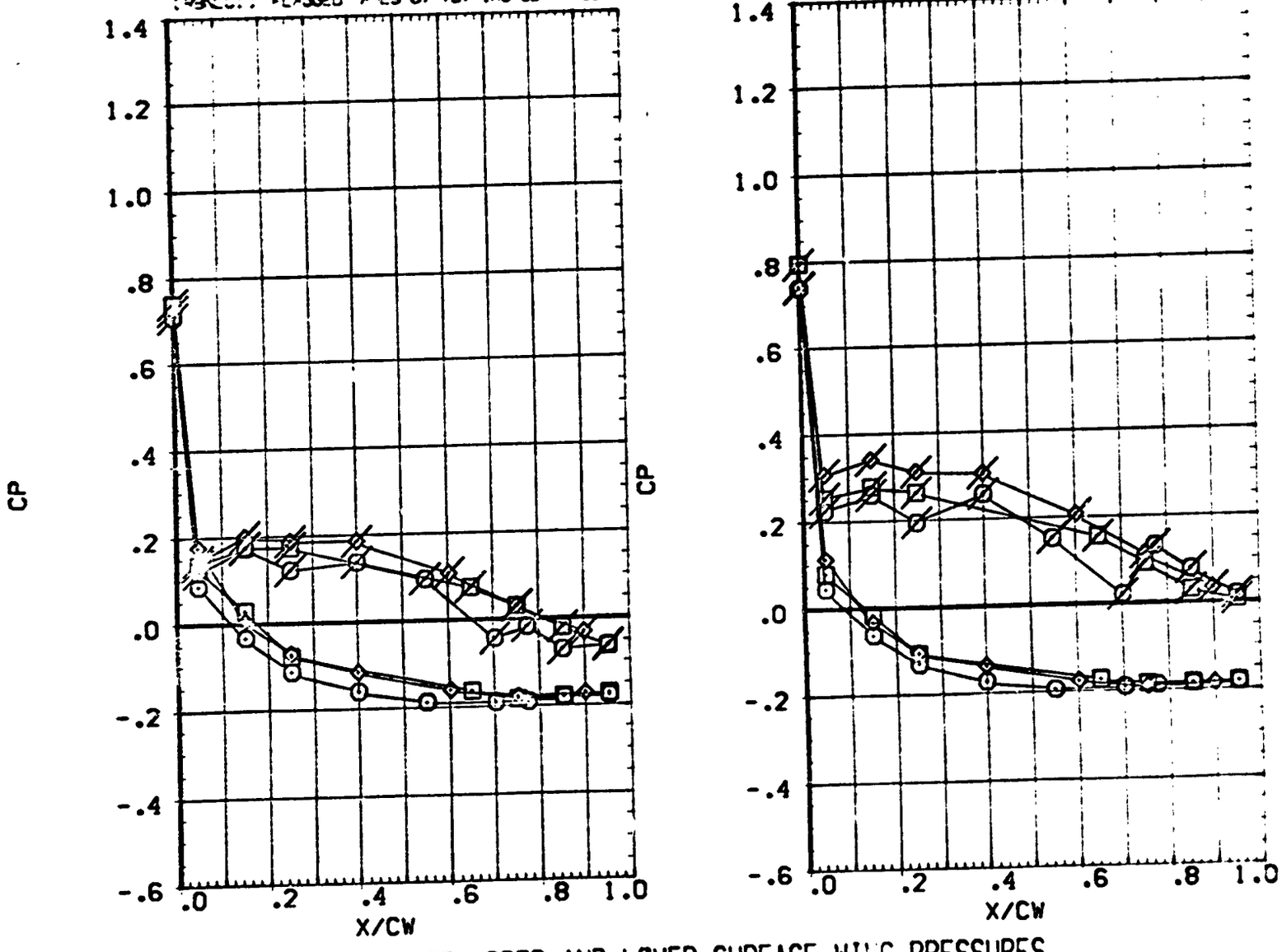
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B	ALPHAT	MACH
○	.673	3.000	2.498
□	.780	8.010	
◇	.887		

PARAMETRIC VALUES

BETAT	.000	SPOILER	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
PENCIL	OPEN	AMES 87-707 :A9 C2A + S3 + T9 UPPER WING
PENCIL	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 LOWER WING



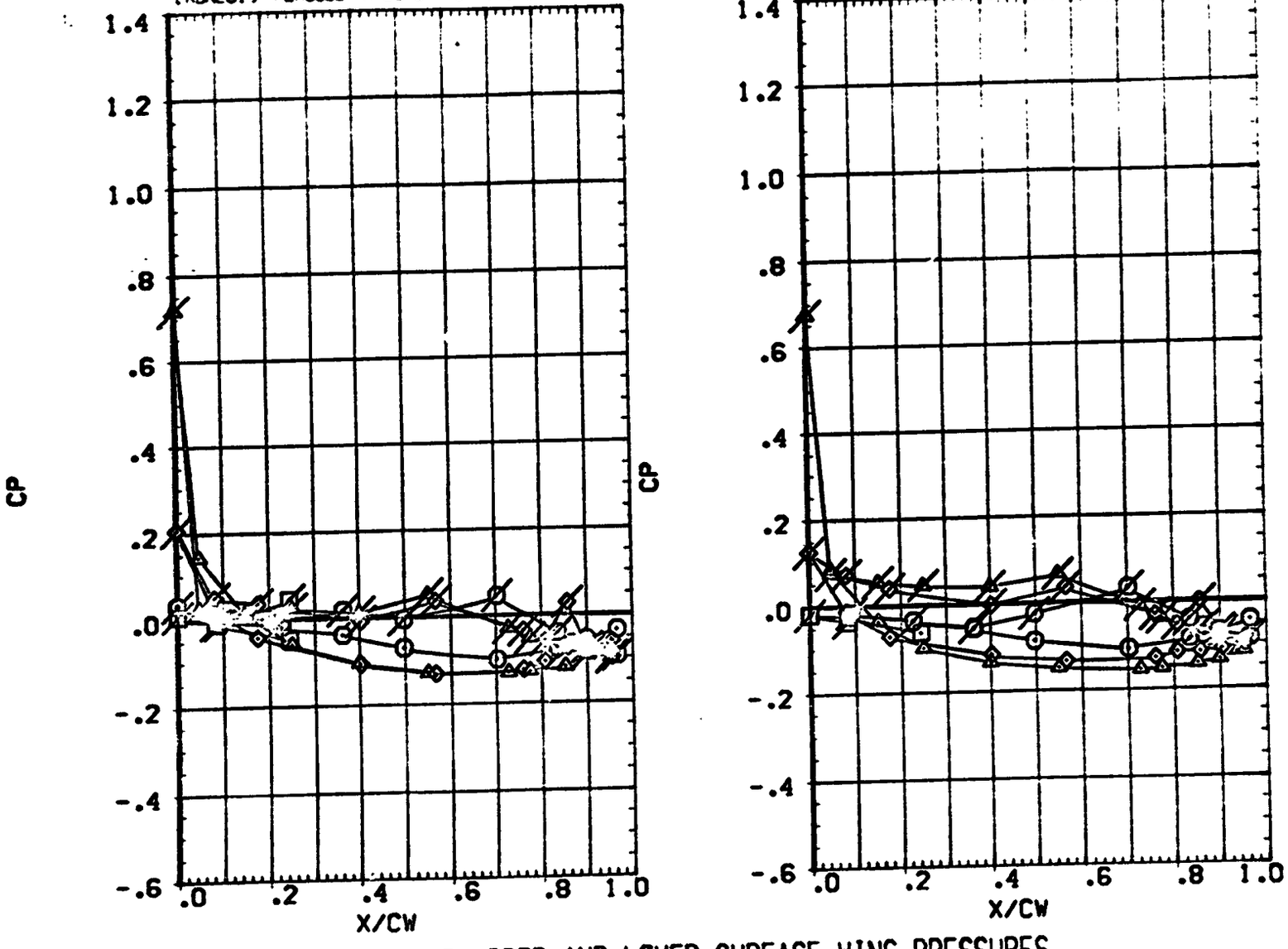
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	ALPHAT	MACH
○	.299	-4.070	2.999
□	.364	-.010	
◇	.427		
△	.534		

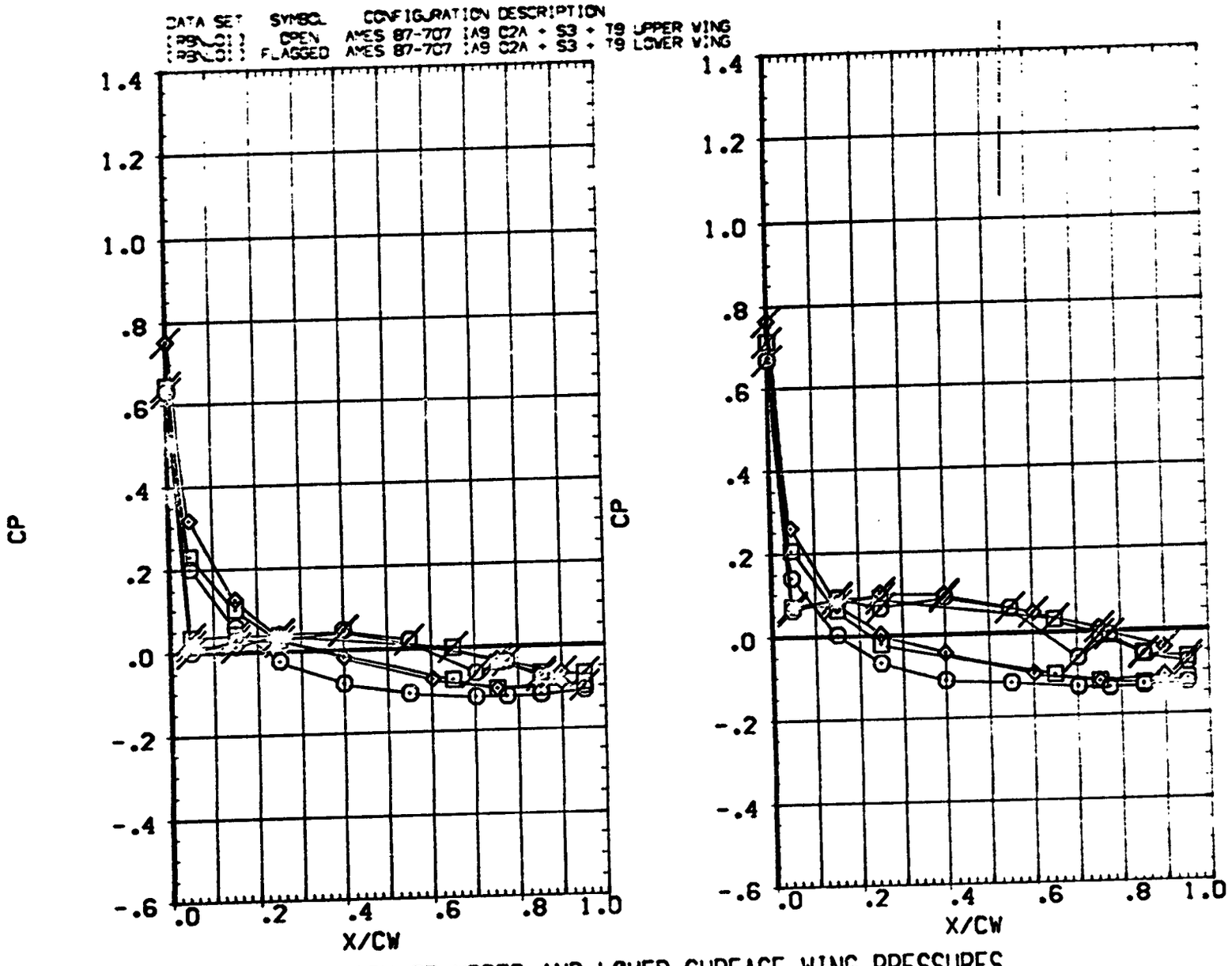
PARAMETRIC VALUES

BETAT	.000	DRBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[RBNLGI]	OPEN	AMES 87-707 IA9 02A + S3 + T9 UPPER WING
[RBNLGI]	FLAGGED	AMES 87-707 IA9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



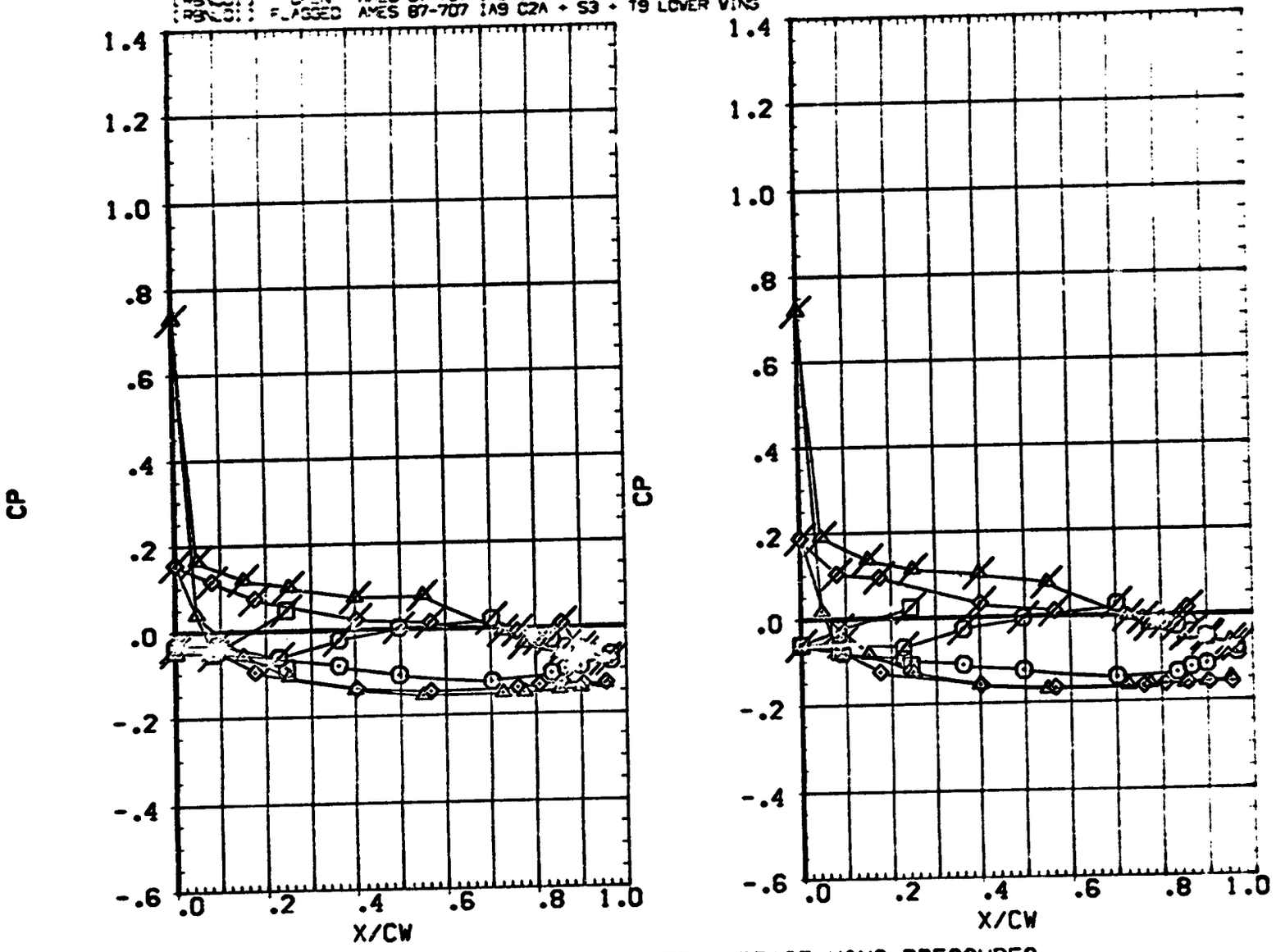
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	ALPHAT	MACH
○	.299	3.960	2.999
□	.364	8.000	
◇	.427		
△	.534		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

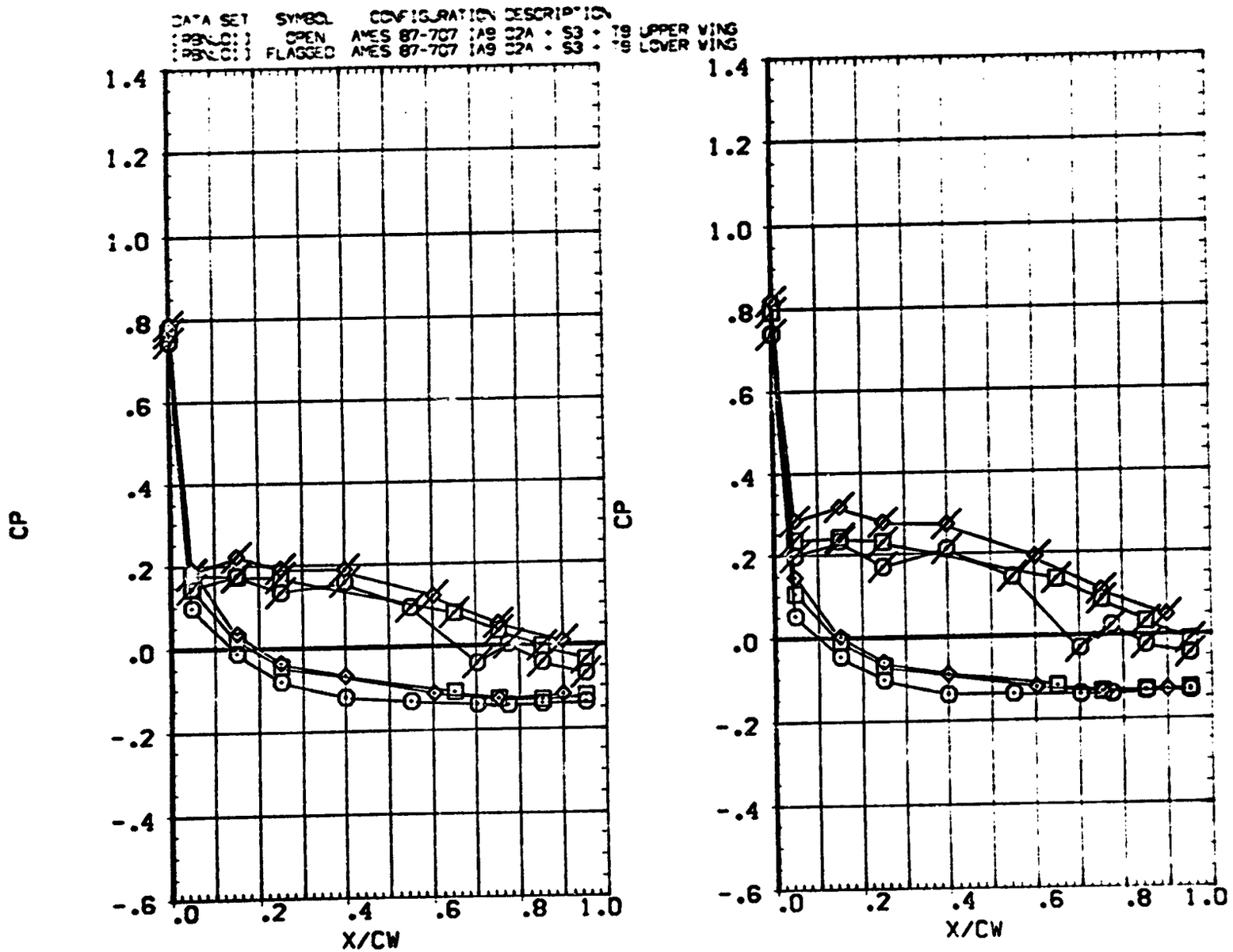
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RUN 101)	OPEN	AMES 87-707 IA9 C2A + S3 + T9 UPPER WING
(RUN 101)	FLAGGED	AMES 87-707 IA9 C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

	.673	3.960	2.999
	.780	8.000	
◇	.887		

RUDDER	.000	ELEVON	.000
RUDFLR	.000		



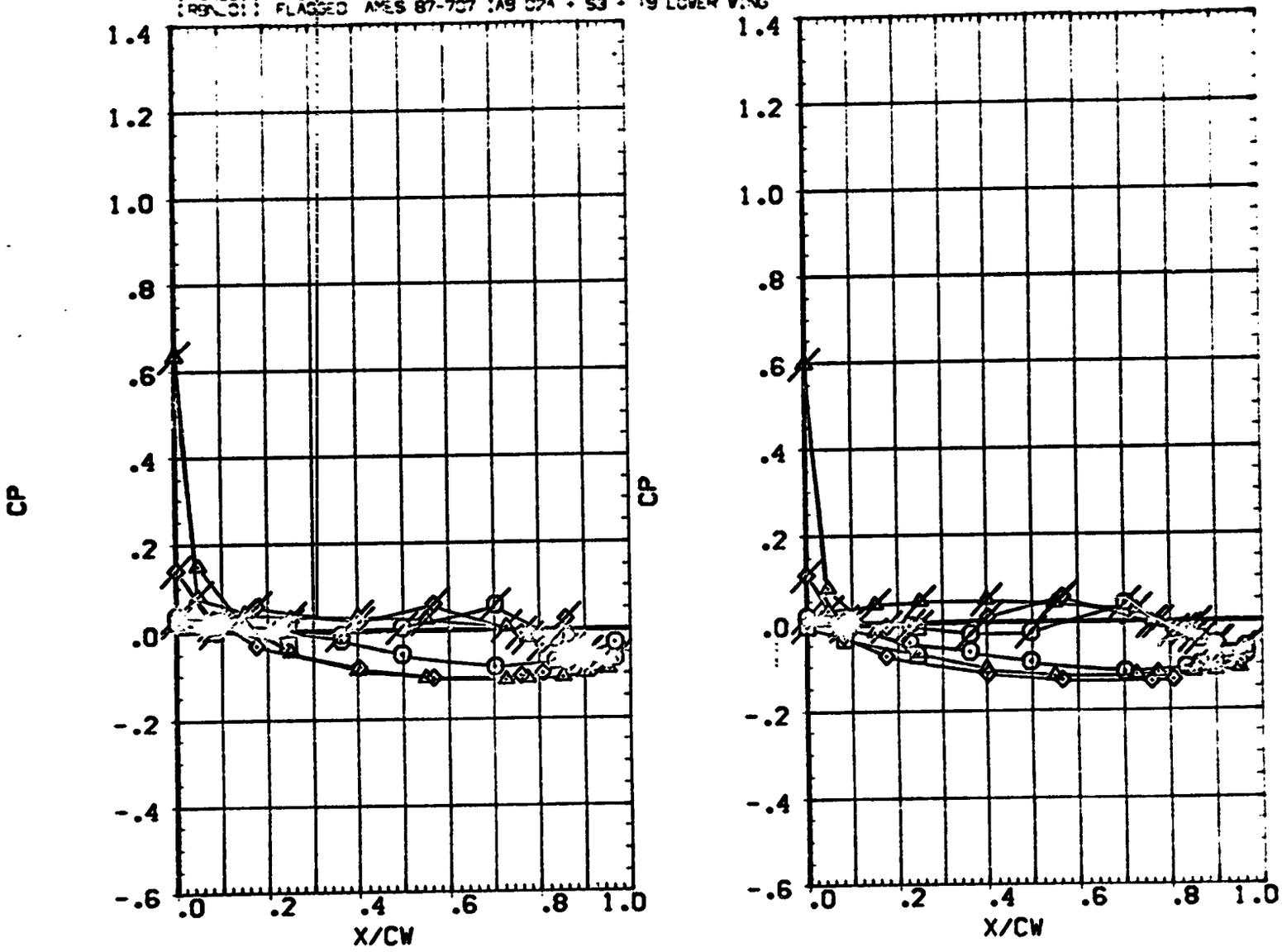
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B/2	ALPHAT	MACH
○	.299	-4.070	3.500
□	.364	-.030	
◇	.427		
△	.534		

PARAMETRIC VALUES

BETAT	.000	SPOILR	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[redacted]	OPEN	AMES 87-707 :A5 C2A + S3 + T9 UPPER WING
[redacted]	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 LOWER WING



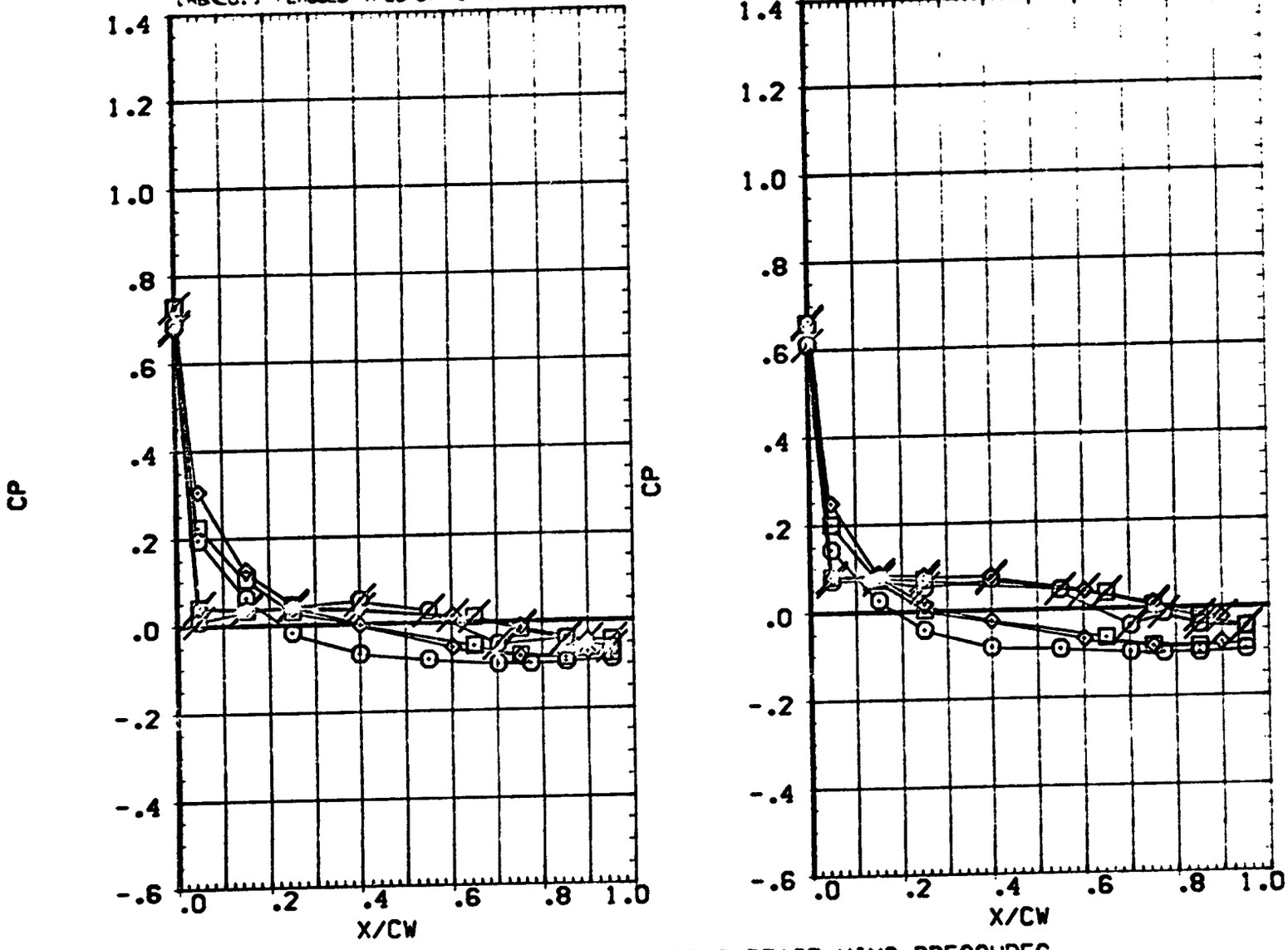
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B/	ALPHAT	MACH
○	.673	-4.07C	3.5C2
□	.78C	-.03C	
◇	.887		

PARAMETRIC VALUES

BETAT	.000	DRGINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[illegible]	OPEN	AMES 87-707 IA9 C2A + S3 + T9 UPPER WING
[illegible]	FLAGGED	AMES 87-707 IA9 C2A + S3 + T9 LOWER WING



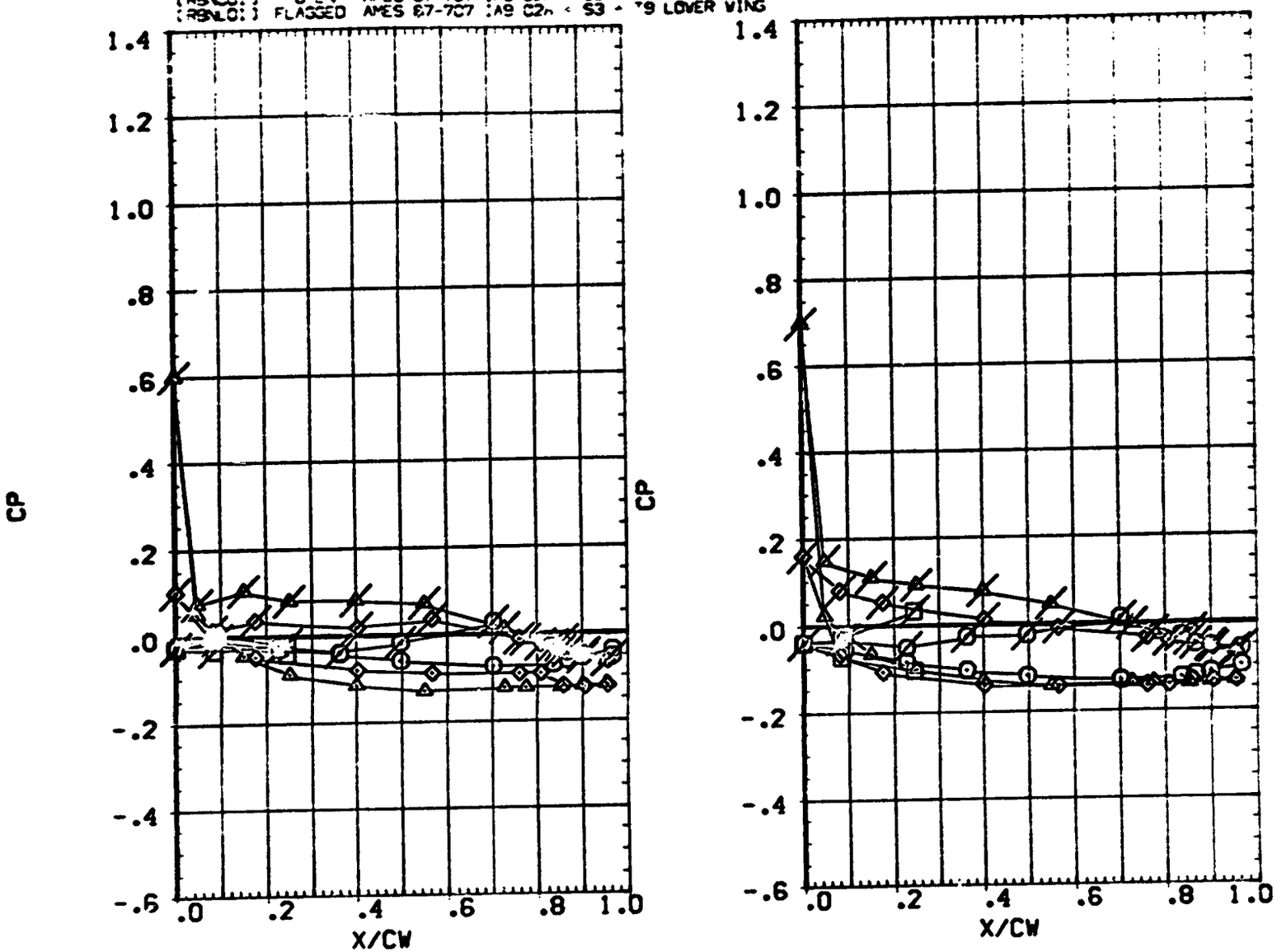
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B/2	ALPHAT	MACH
○	.299	3.960	3.502
□	.364	8.010	
◇	.427		
△	.534		

PARAMETRIC VALUES

BETAT	.000	SPRING	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNLO1)	OPEN	AMES 67-707 (A9 C2A + S3 + T9 UPPER WING
(RBNLO1)	FLAGGED	AMES 67-707 (A9 C2A + S3 + T9 LOWER WING



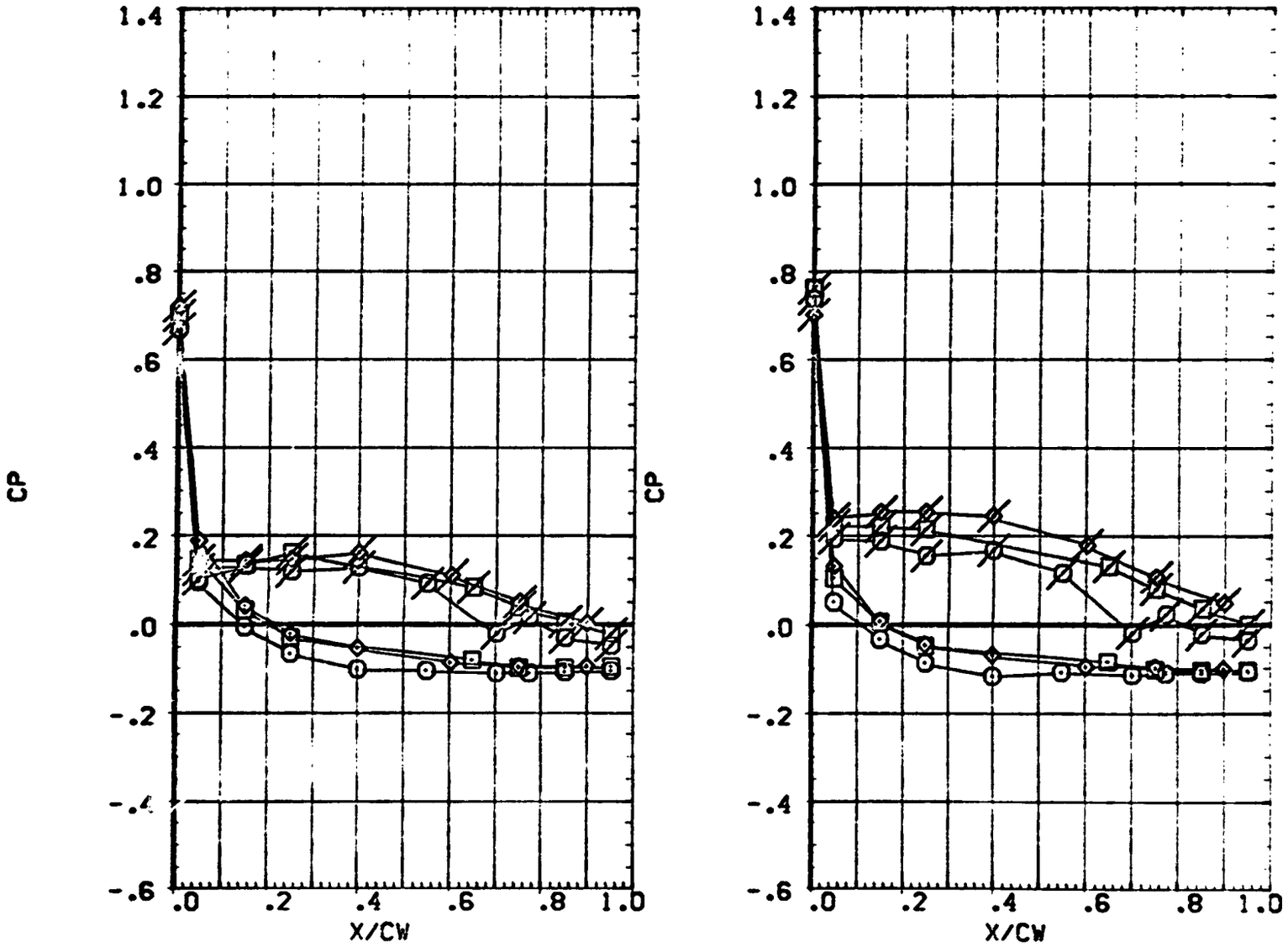
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	ALPHAT	MACH
○	.673	3.960	3.502
□	.780	8.010	
◇	.887		

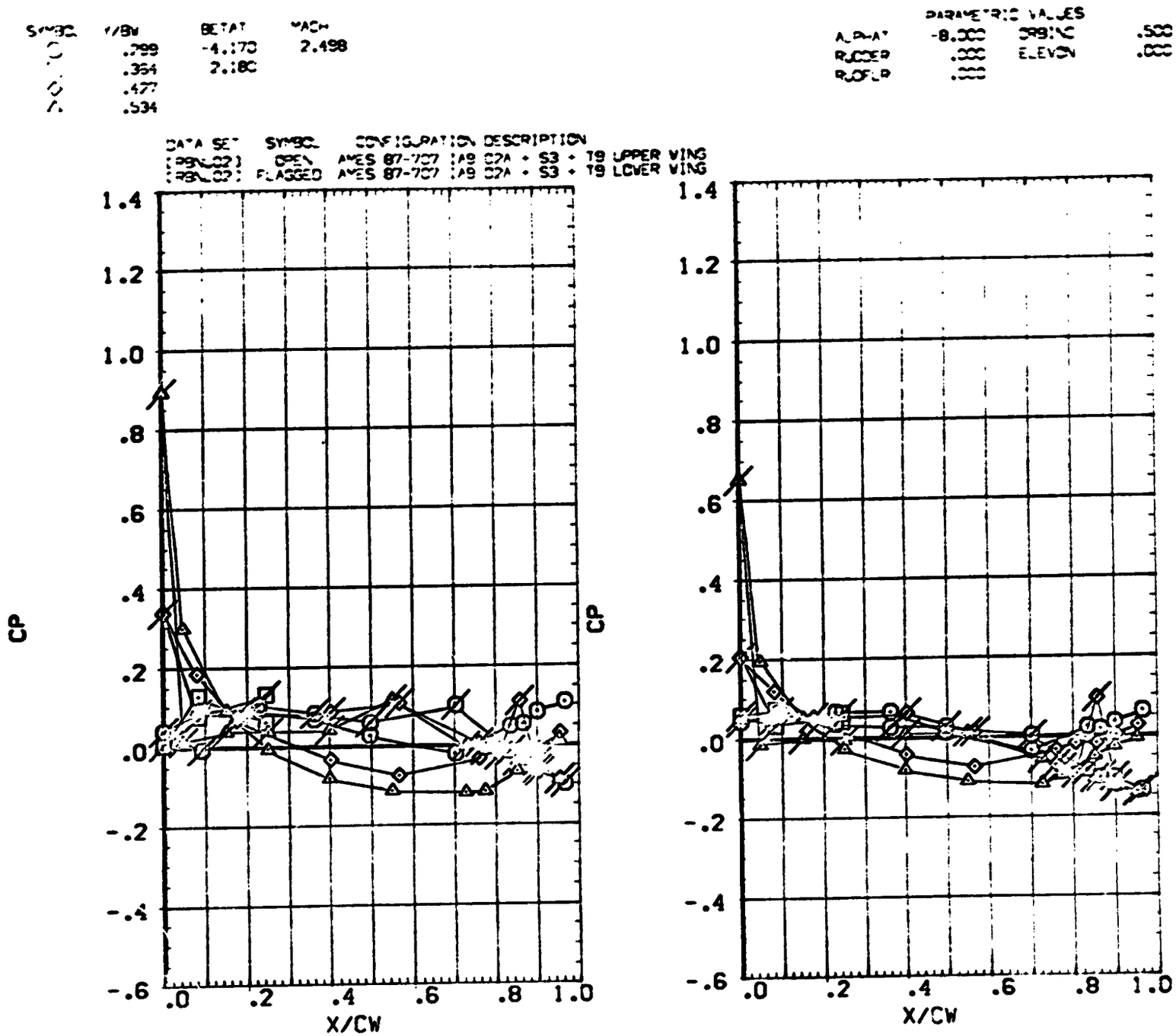
PARAMETRIC VALUES

BETAT	.000	DPSINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[illegible]	OPEN	AMES 87-707 IA9 C2A + S3 + T9 UPPER WING
[illegible]	FLAGGED	AMES 87-707 IA9 C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



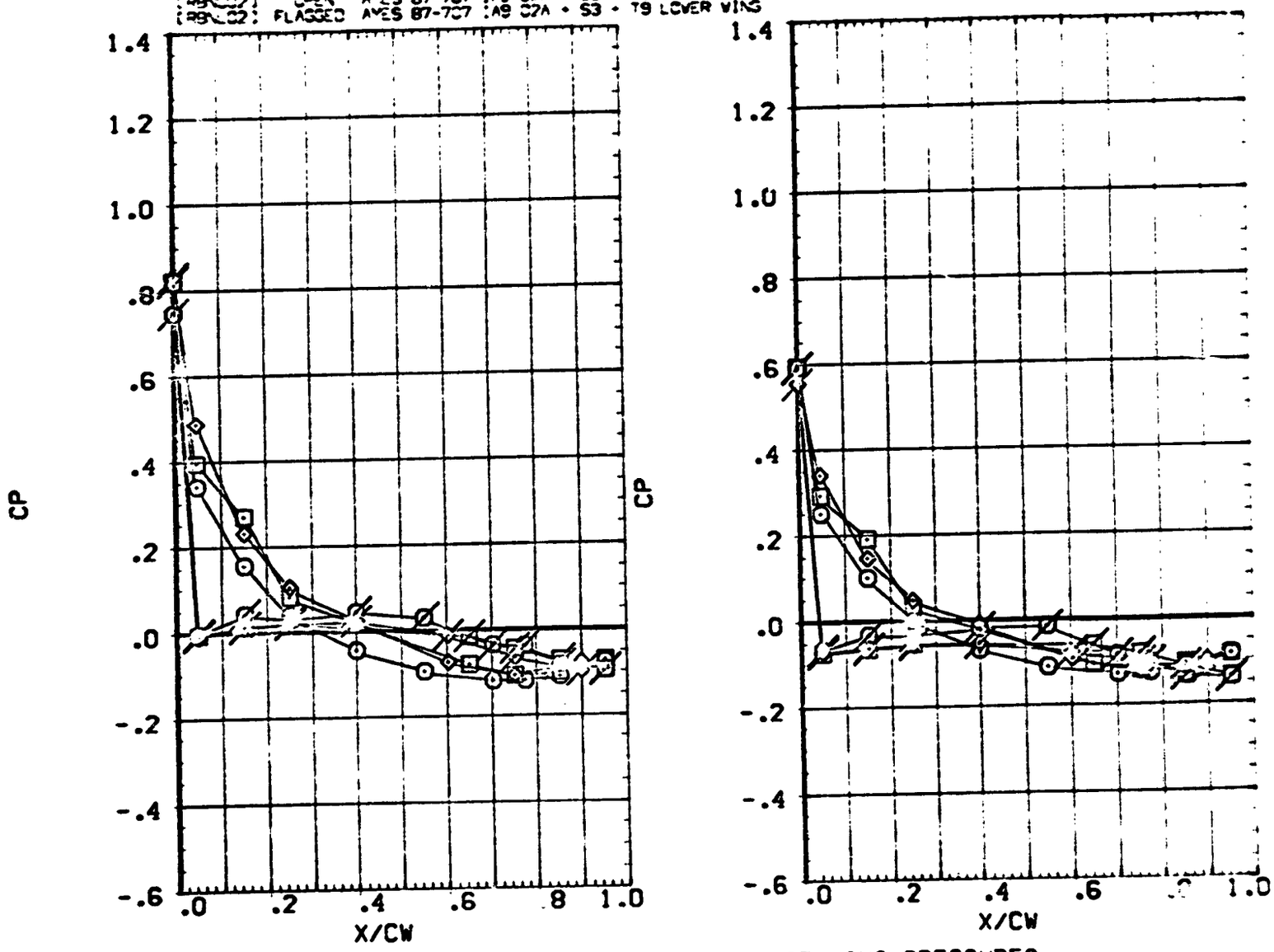
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B	BETA	MACH
○	.673	-4.:7C	2.498
□	.78C	2.:8C	
◇	.887		

PARAMETRIC VALUES

ALPHAT	-8.000	[illegible]	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[illegible]	OPEN	AMES 87-707 :A9 C2A + S3 + T9 UPPER WING
[illegible]	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

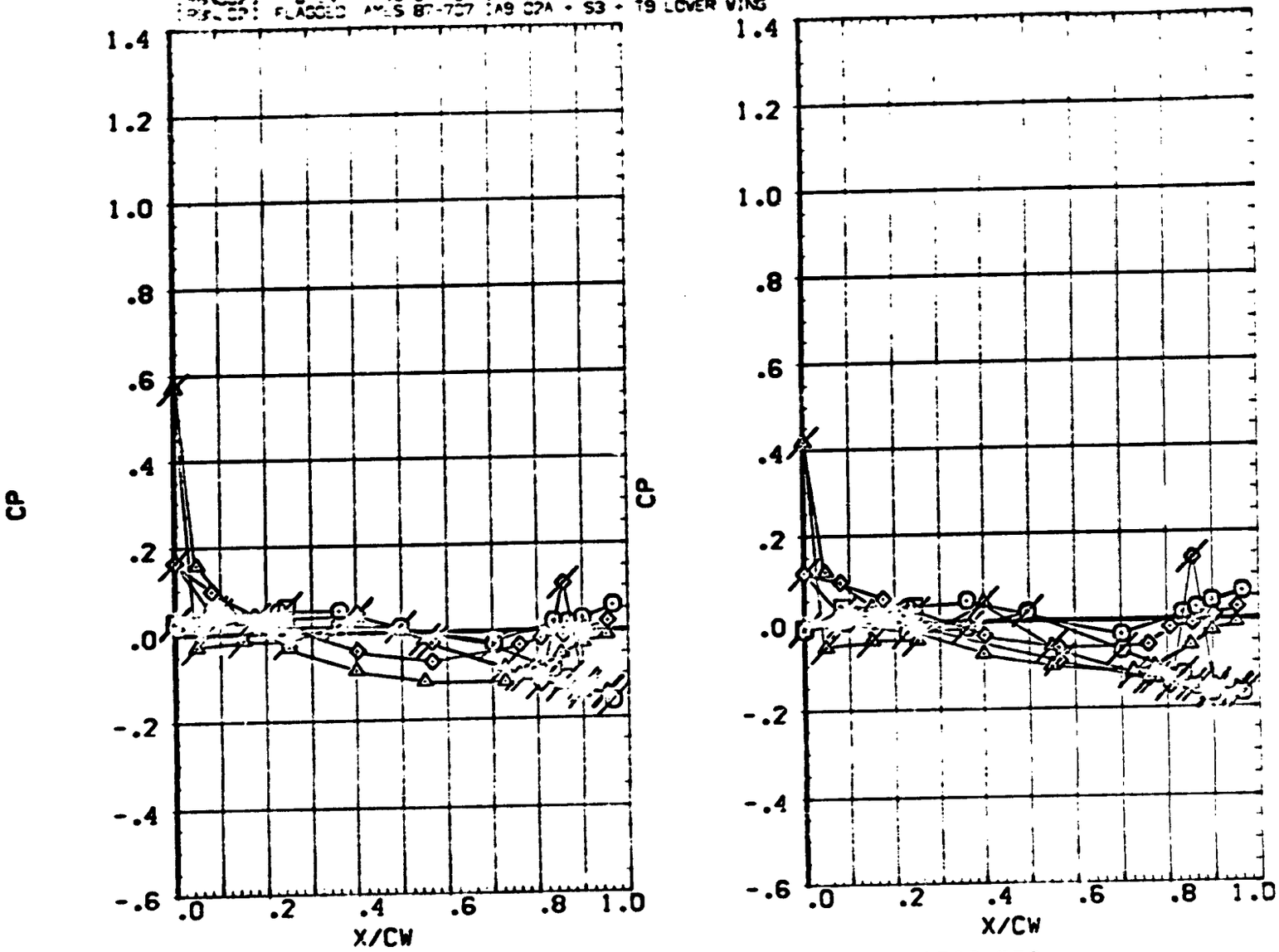
PAGE [illegible]

SYMBOL	Y/B	BETA	MACH
	.299	4.32°	2.498
	.354	8.58°	
	.477		
	.534		

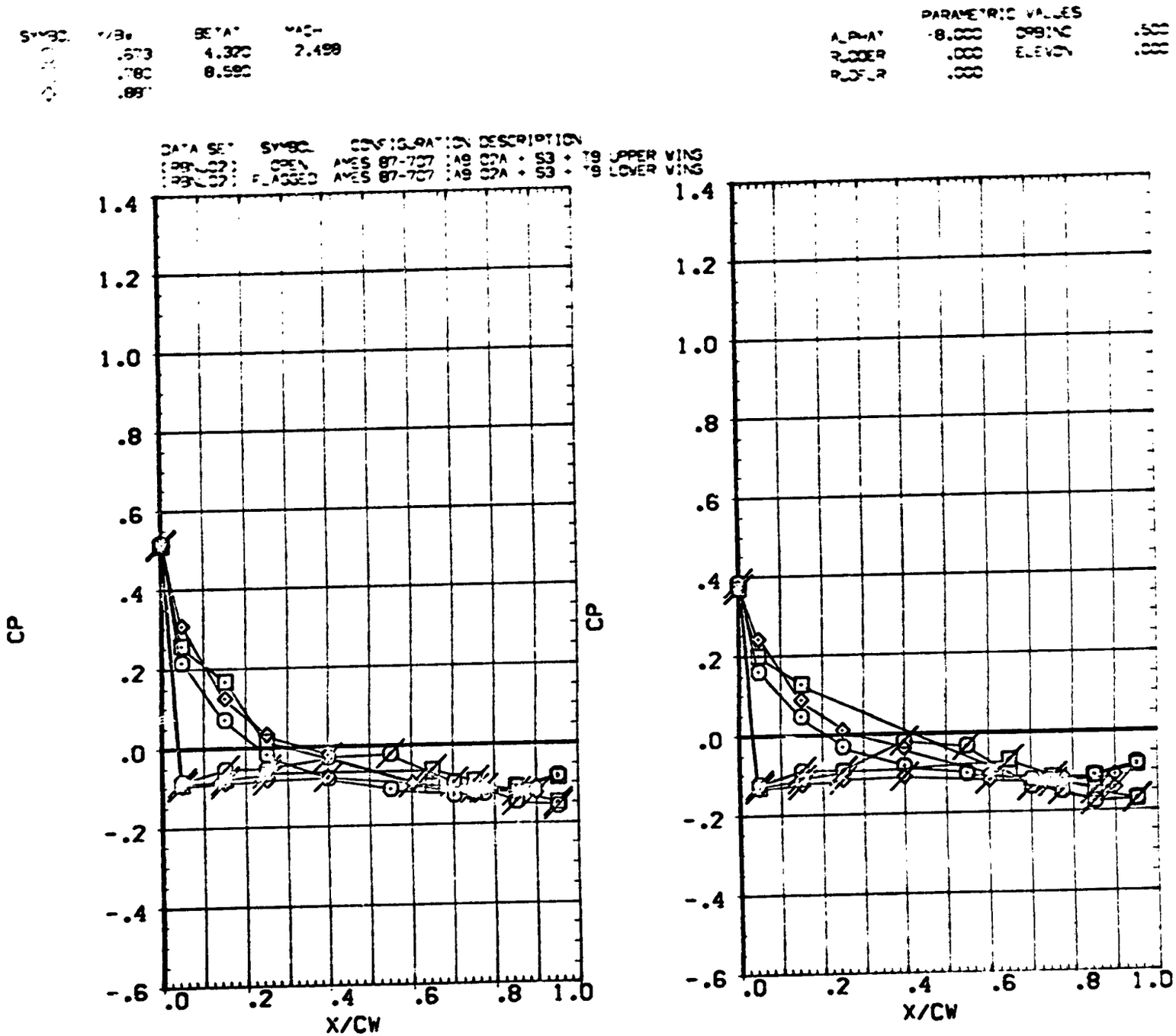
PARAMETRIC VALUES

ALPHA	-8.00°	DRIVE	.500
RUDDER	.000	ELEVON	.000
ROLLER	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[illegible]	OPEN	AMES 87-727 :A9 C2A : S3 : T9 UPPER WING
[illegible]	FLAGGED	AMES 87-727 :A9 C2A : S3 : T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



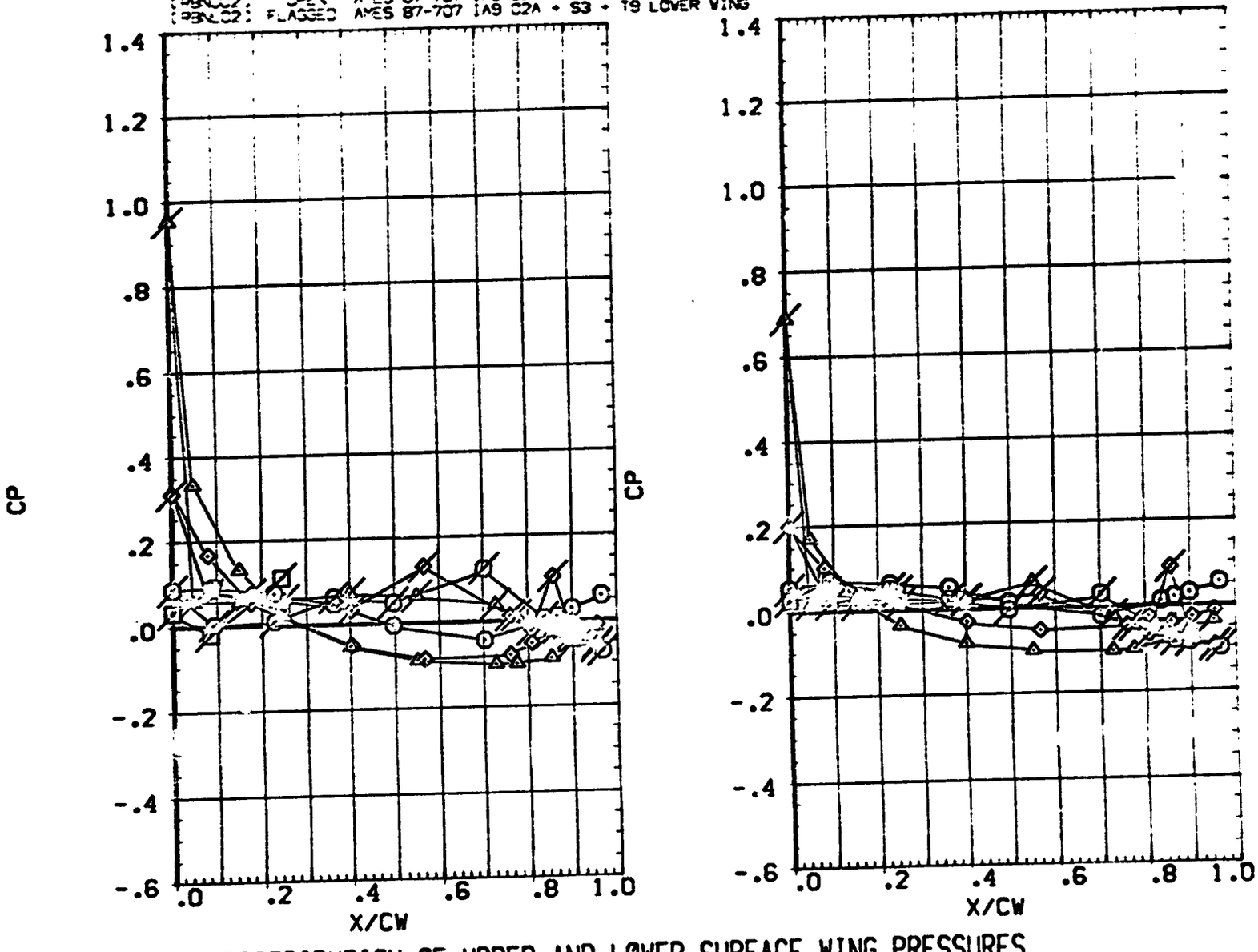
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B	BETA	MACH
	.299	-4.250	2.999
	.364	2.230	
	.427		
	.534		

PARAMETRIC VALUES

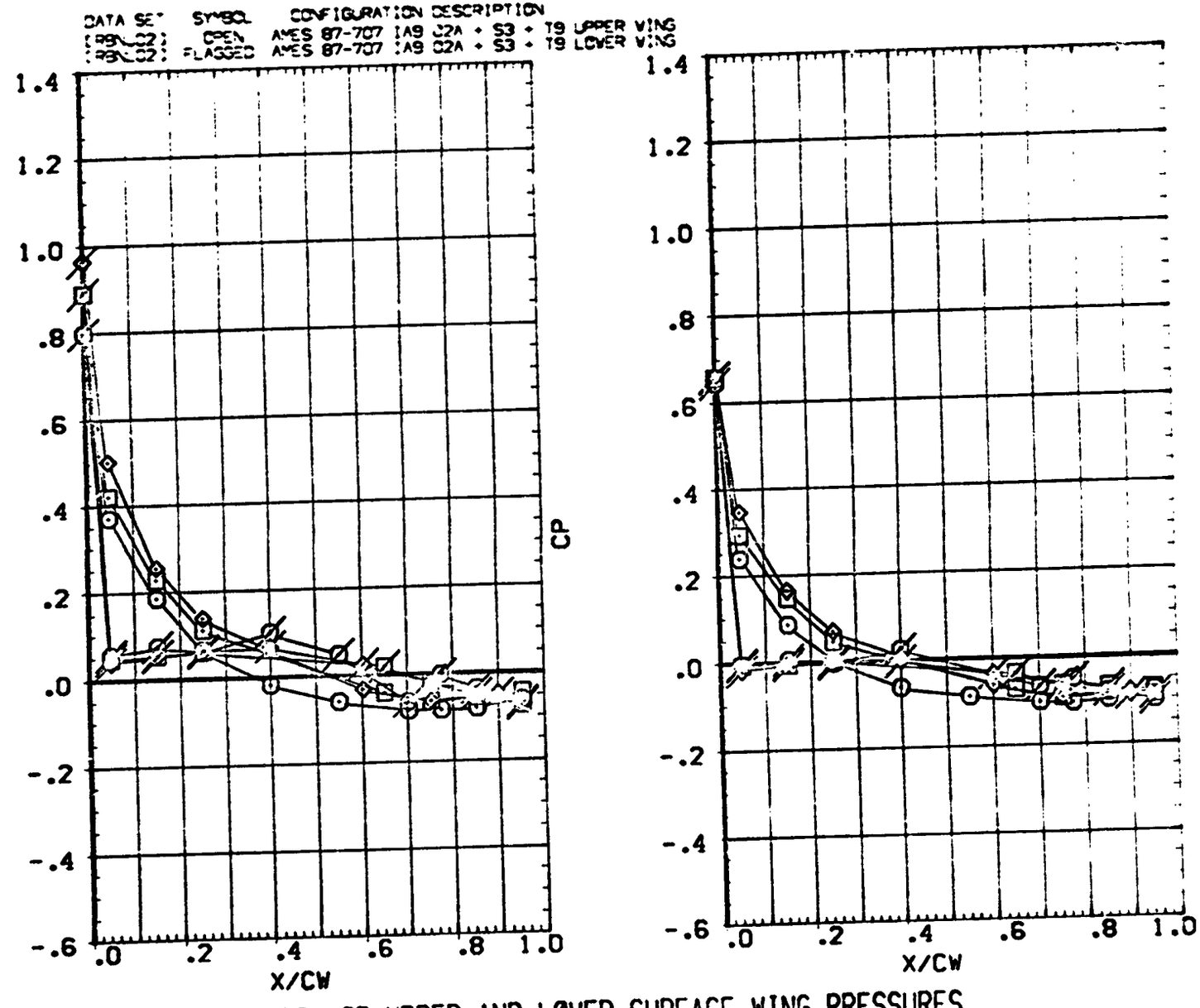
ALPHA	-8.000	DBB1NC	.500
RUDDER	.000	ELEVON	.000
RUDDLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PBNLO2)	OPEN	AMES 87-707 (A9 O2A + S3 + T9 UPPER WING
(PBNLO2)	FLAGGED	AMES 87-707 (A9 O2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

.78C 2.23C RUDFLR .000
◇ .887



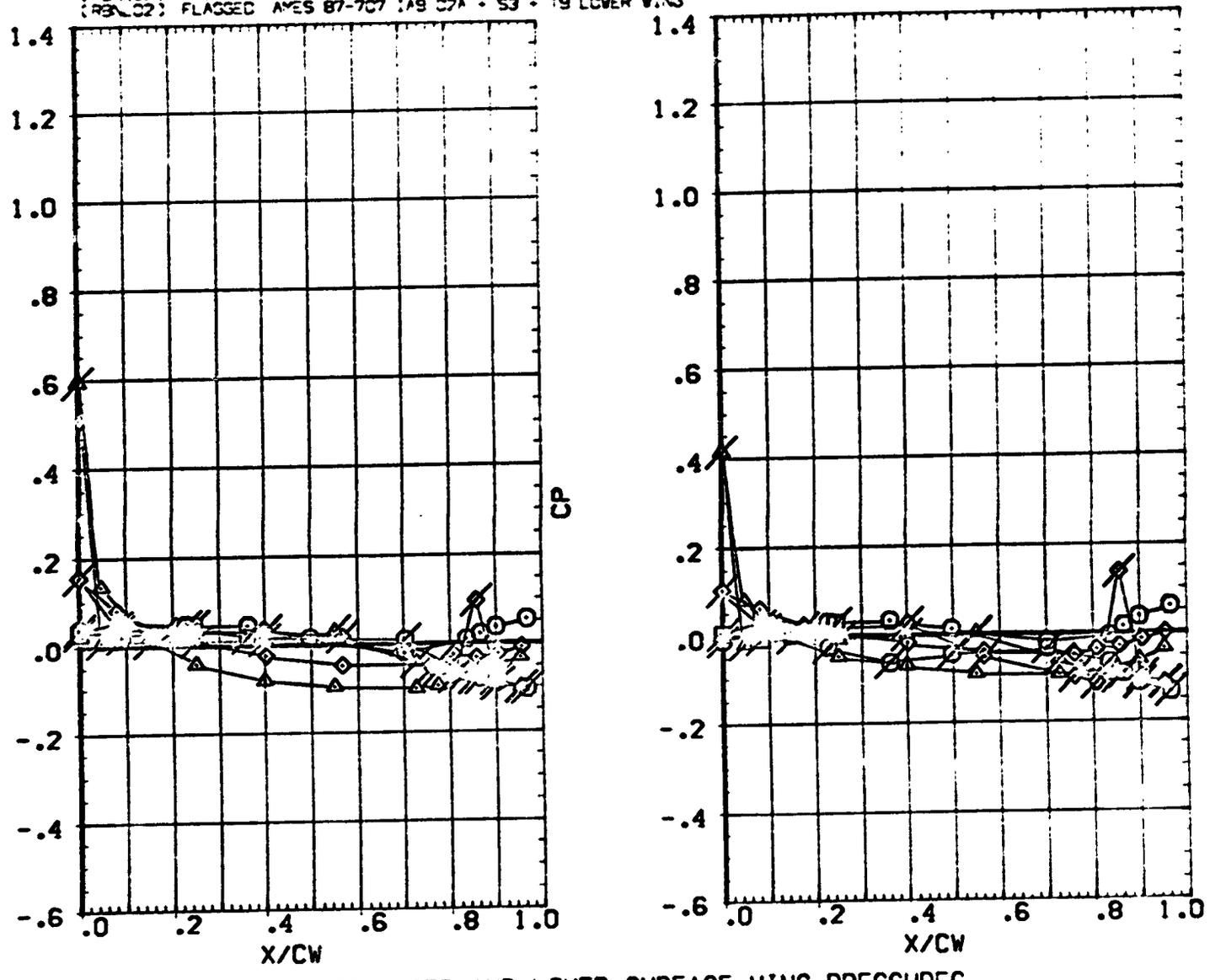
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.299	4.400	2.999
□	.364	8.750	
◇	.427		
△	.534		

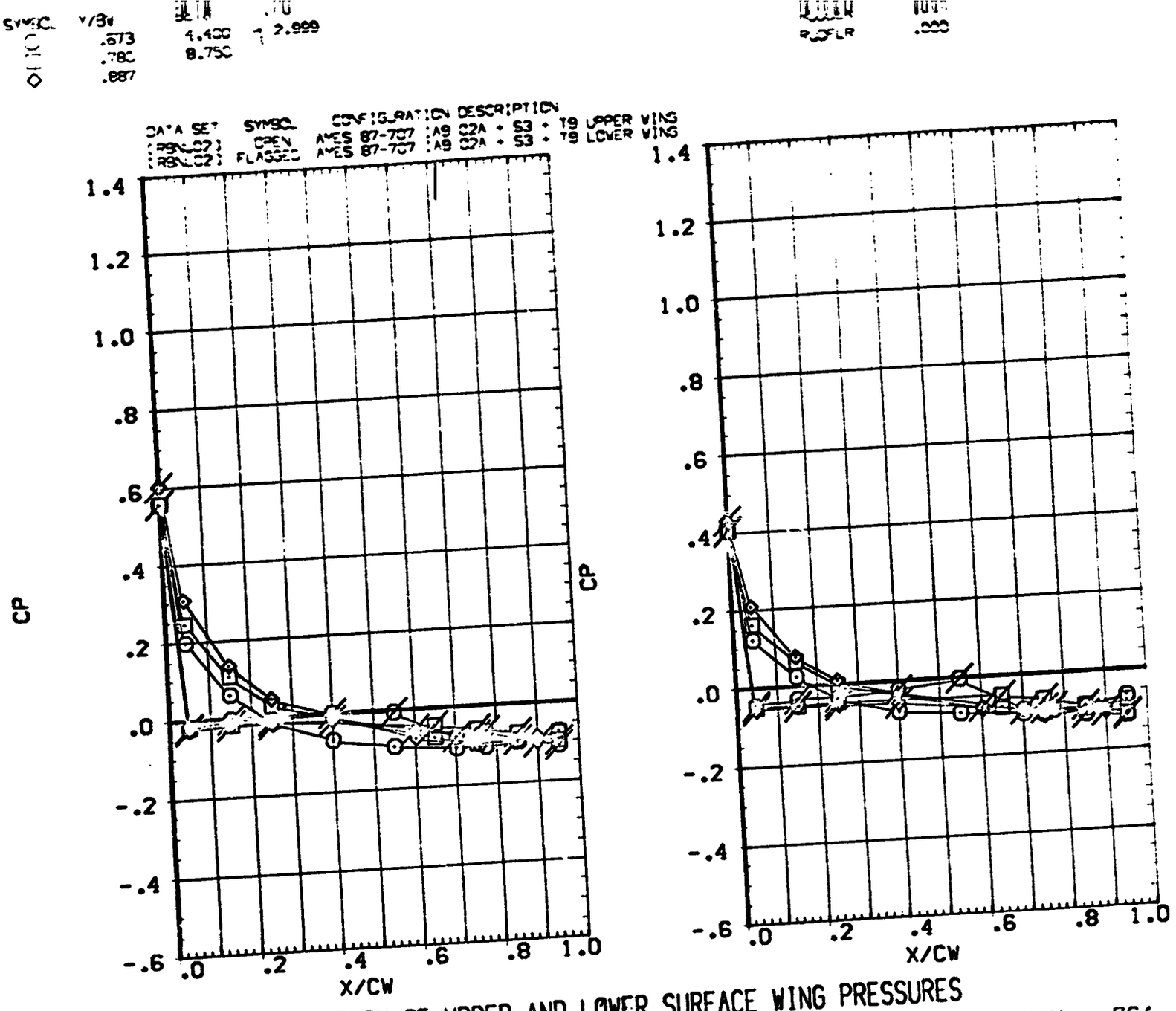
PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[RBNL02]	OPEN	AMES 87-707 IA9 02A + S3 + T9 UPPER WING
[RBNL02]	FLAGGED	AMES 87-707 IA9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



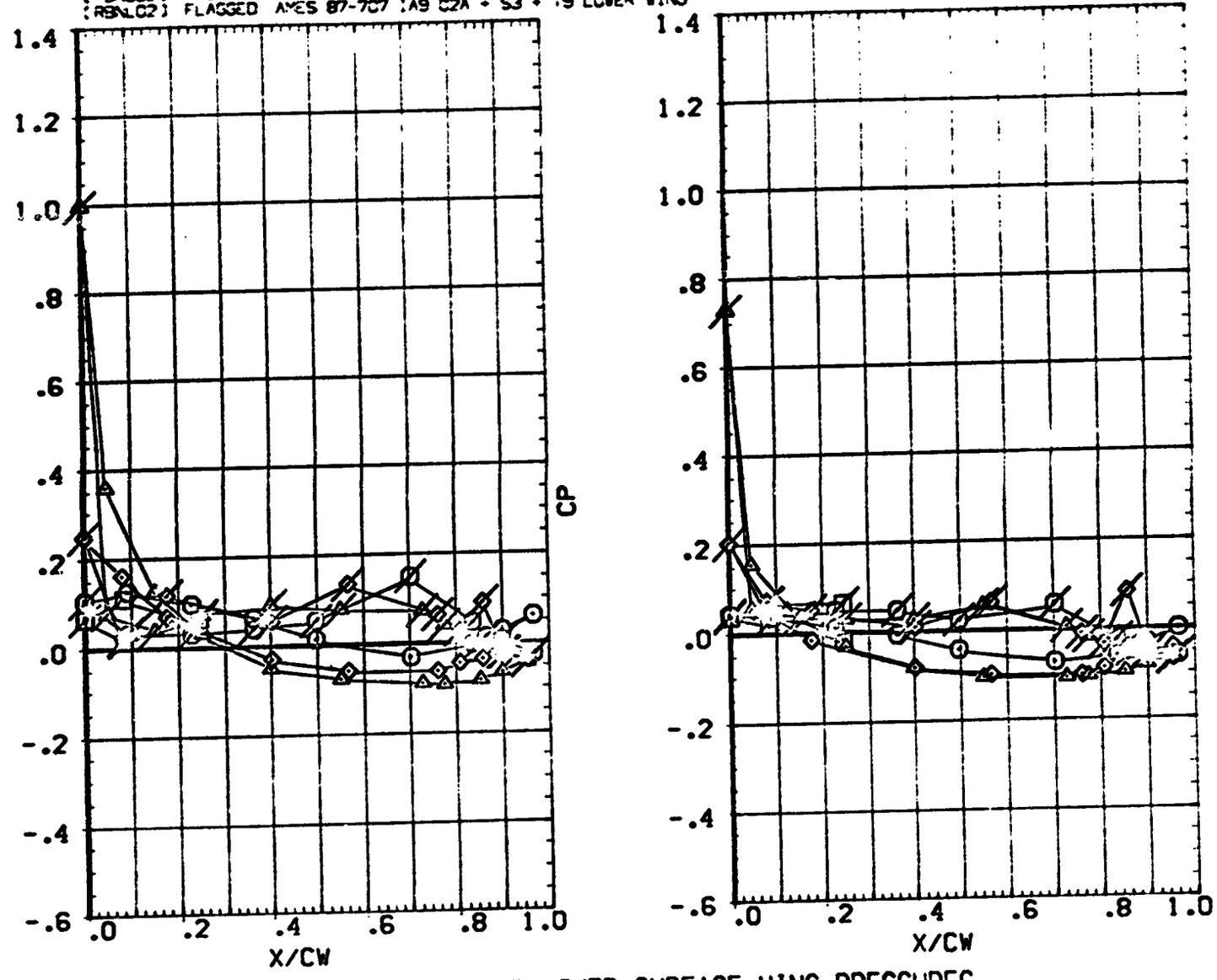
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
	.299	-4.330	3.502
	.364	2.260	
	.427		
	.534		

PARAMETRIC VALUES

ALPHAT	-8.000	SPBINC	.500
RUDDER	.000	ELEVON	.000
RUDLP	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNLC2)	OPEN	AMES 87-707 (A9 C2A + S3 + T9 UPPER WING
(RBNLC2)	FLAGGED	AMES 87-707 (A9 C2A + S3 + T9 LOWER WING



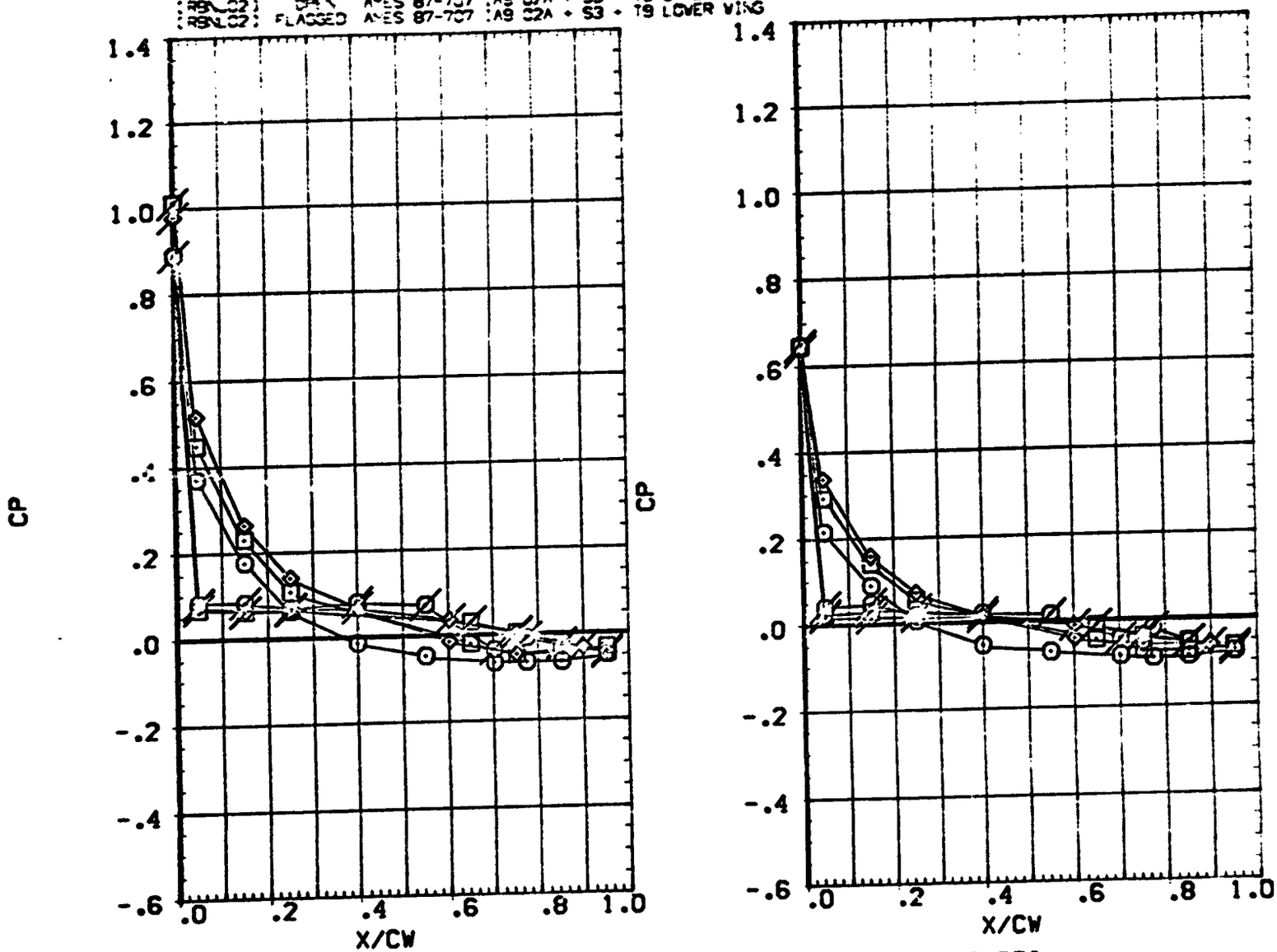
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.673	-4.330	3.502
□	.780	2.260	
◇	.887		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNL02)	OPEN	AMES 87-707 (A9 02A + S3 + T9 UPPER WING
(RBNL02)	FLAGGED	AMES 87-707 (A9 02A + S3 + T9 LOWER WING



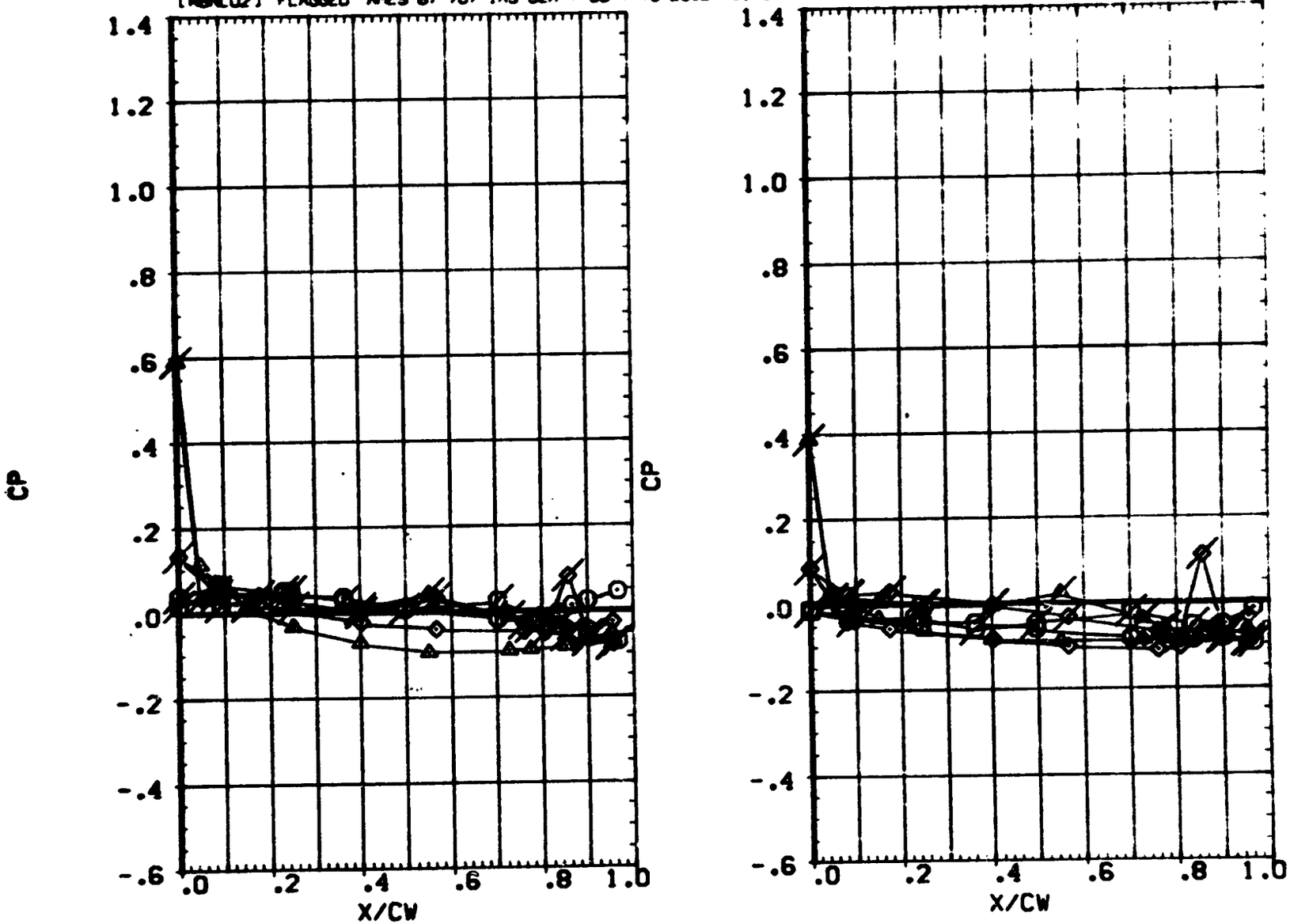
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B/2	BETA	MACH
○	.299	4.480	3.502
□	.364	8.910	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHA	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[RBNL02]	OPEN	AMES 87-707 1A9 02A + S3 + T9 UPPER WING
[RBNL02]	FLAGGED	AMES 87-707 1A9 02A + S3 + T9 LOWER WING



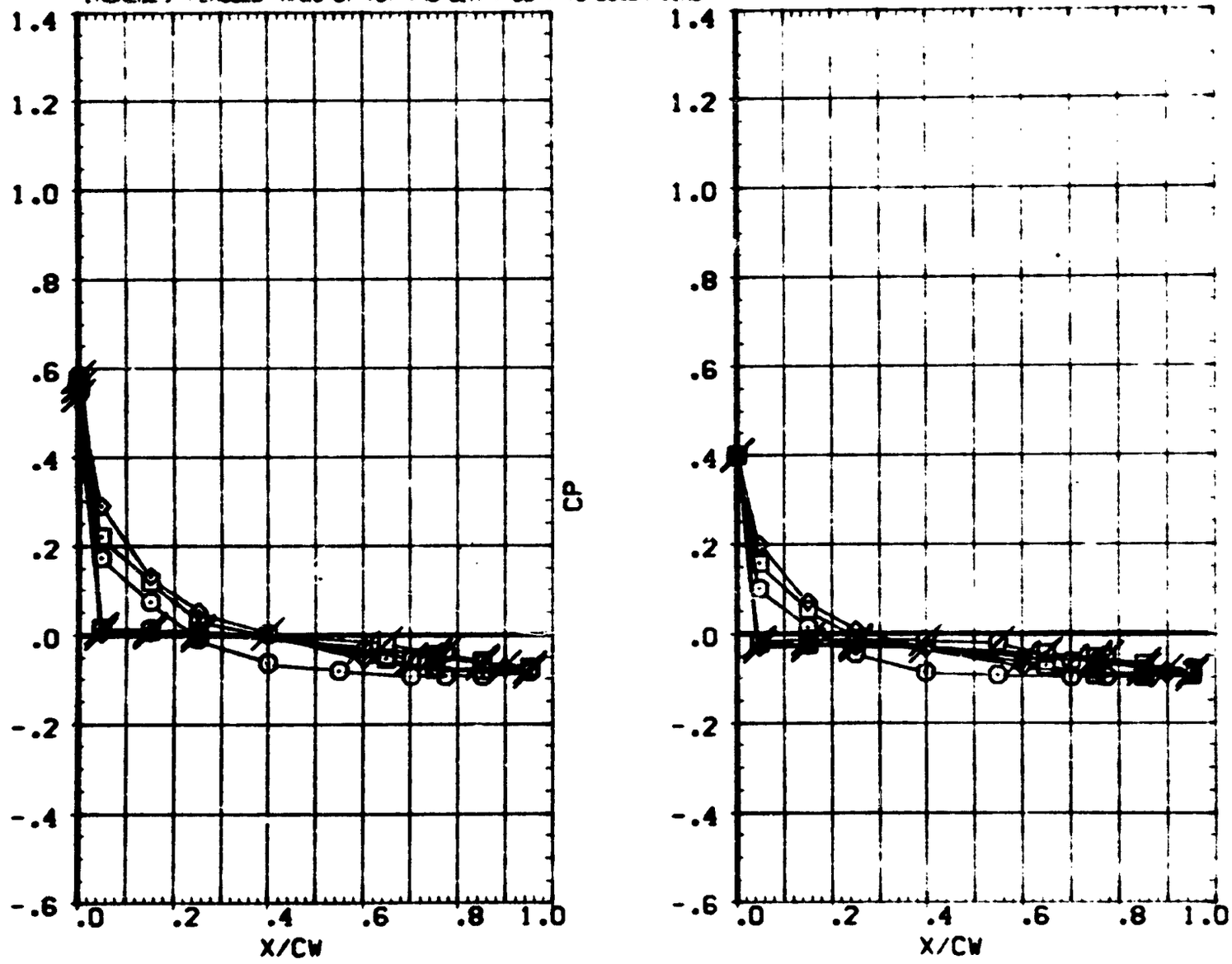
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.673	4.480	3.502
□	.780	8.910	
◇	.887		

PARAMETRIC VALUES

ALPHAT	0.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROLL_P	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[RBNU02]	OPEN	AMES 87-707 IA9 D2A + S3 + T9 UPPER WING
[RBNL02]	FLAGGED	AMES 87-707 IA9 D2A + S3 + T9 LOWER WING



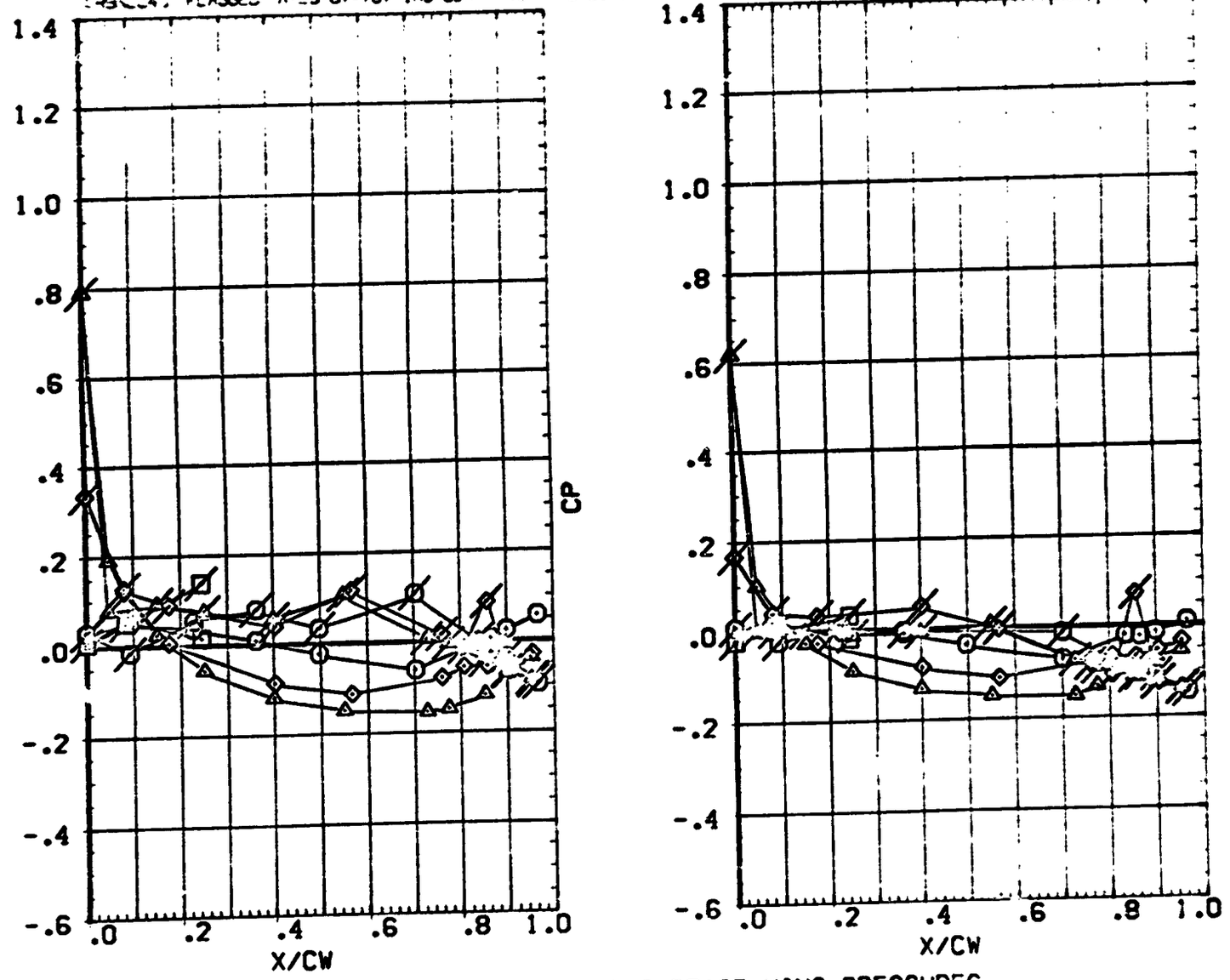
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B	BETA	MACH
	.299	-4.180	2.498
	.364	2.180	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHAT	-4.000	SPOILER	.500
RUDDER	.000	ELEVON	.000
RUDDER	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[illegible]	OPEN	AMES 87-707 :A9 B2A + S3 + T9 UPPER WING
[illegible]	FLAGGED	AMES 87-707 :A9 B2A + S3 + T9 LOWER WING



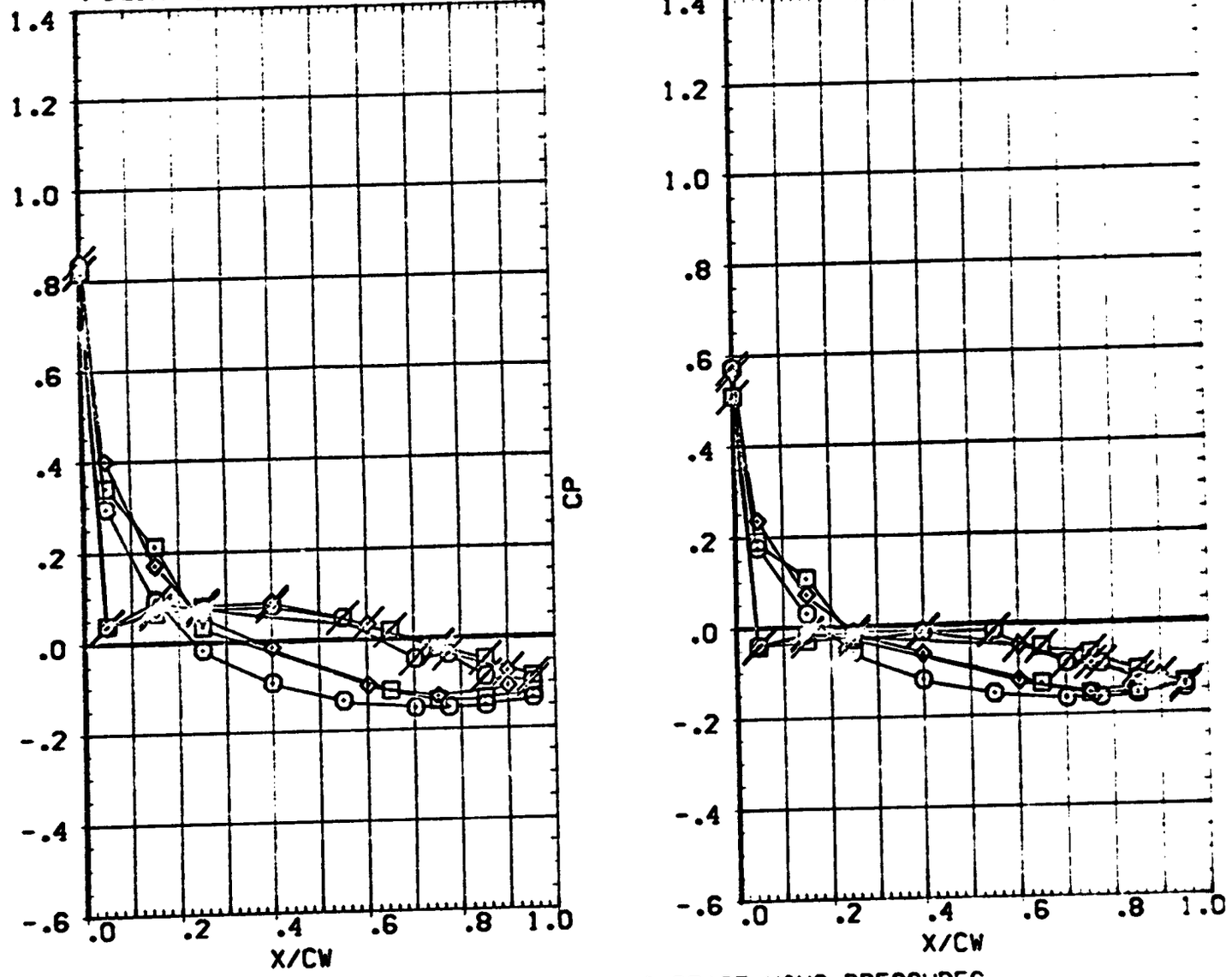
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B	BETA	MACH
○	.573	-4.1°C	2.498
□	.78C	2.1°C	
◇	.887		

PARAMETRIC VALUES

ALPHA	-4.000	[illegible]	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PSNLC4)	OPEN	AMES 87-707 (A9 C2A + S3 + T9 UPPER WING
(PSNLC4)	FLAGGED	AMES 87-707 (A9 C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

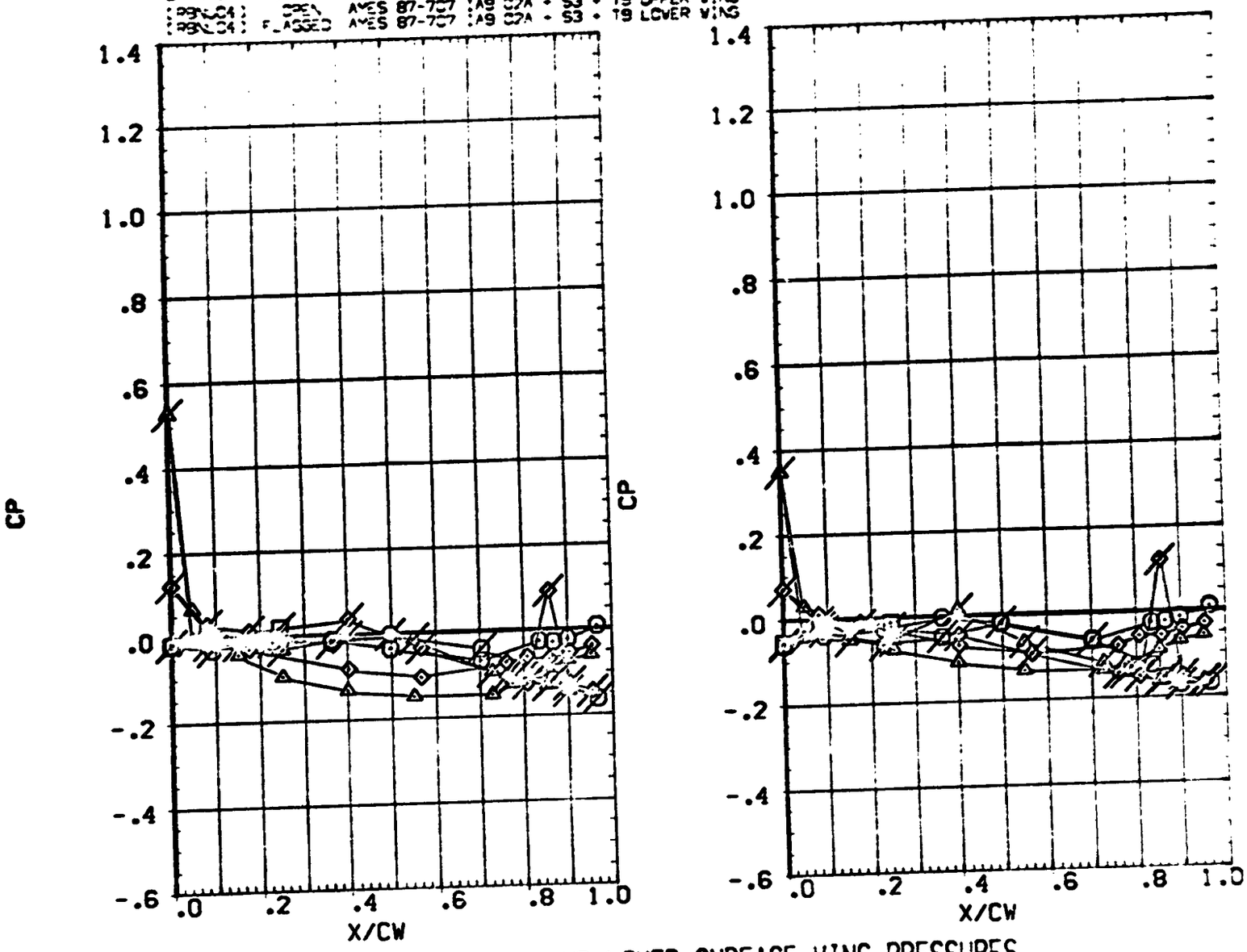
PAGE [illegible]

SYMBOL	Y/B	BETA	MACH
○	.299	4.300	2.498
□	.364	8.550	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHA	-4.000	SPOILER	.000
RUDDER	.000	ELEVON	.000
RUDDER	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
PSRUN04	OPEN	AMES 87-707 :A9 D7A + S3 + T9 UPPER WING
PSRUN04	FLAGGED	AMES 87-707 :A9 D7A + S3 + T9 LOWER WING



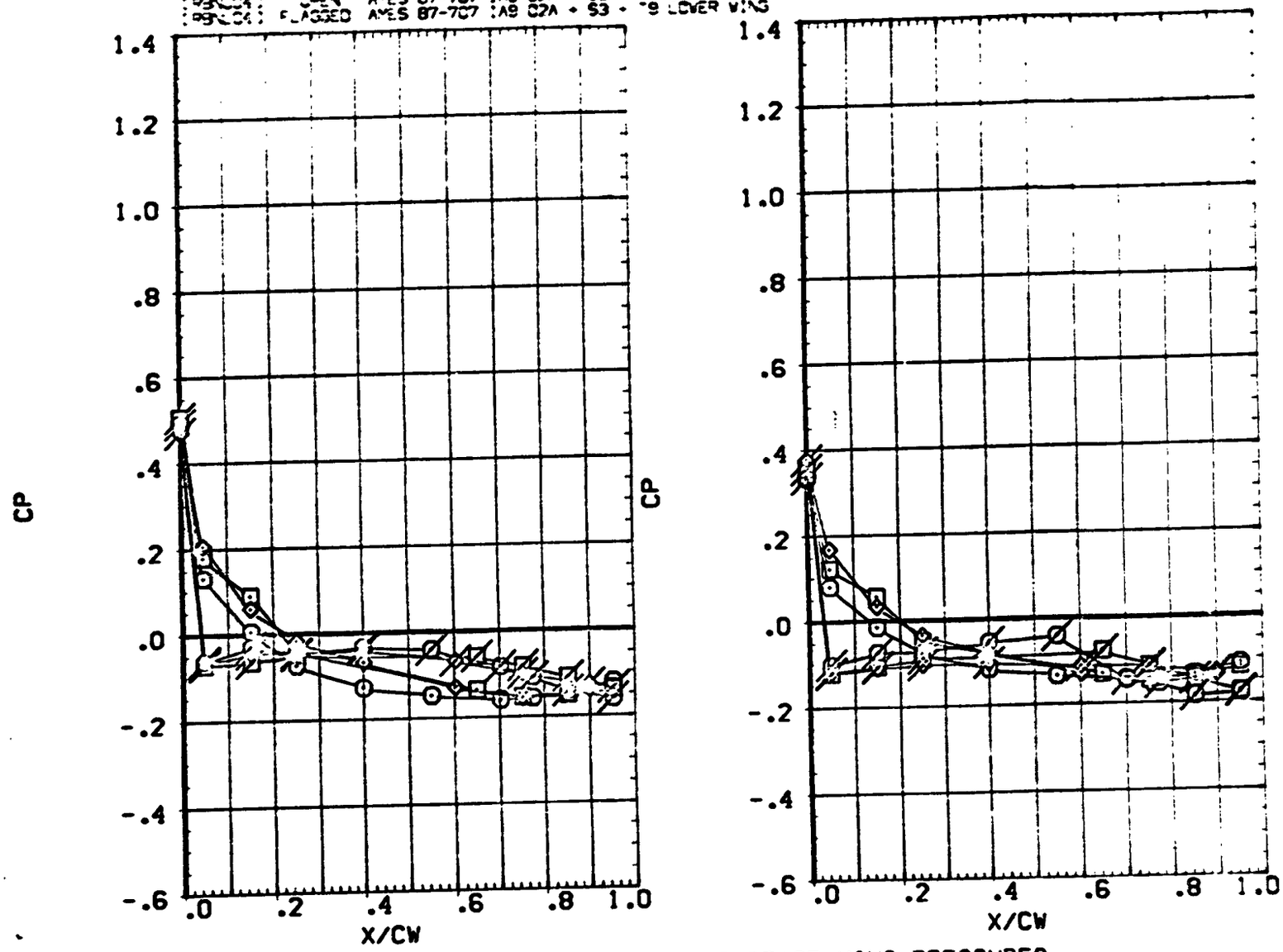
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	X/BM	BETA	MACH
○	.673	4.300	2.498
△	.780	8.550	
◇	.897		

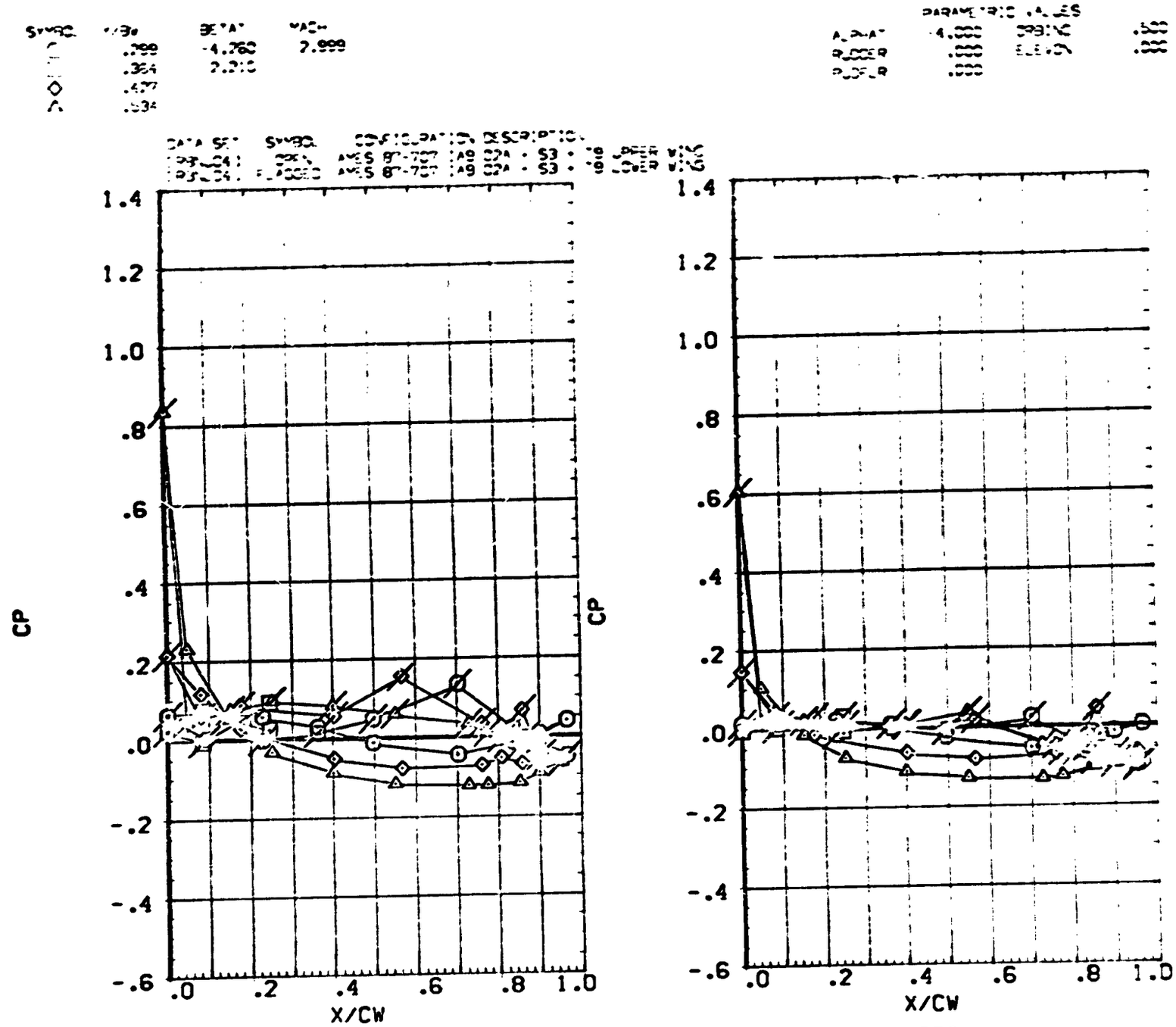
PARAMETRIC VALUES

ALPHAT	-4.000	[illegible]	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[illegible]	OPEN	AMES 87-707 :A9 C2A + S3 + T9 UPPER WING
[illegible]	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



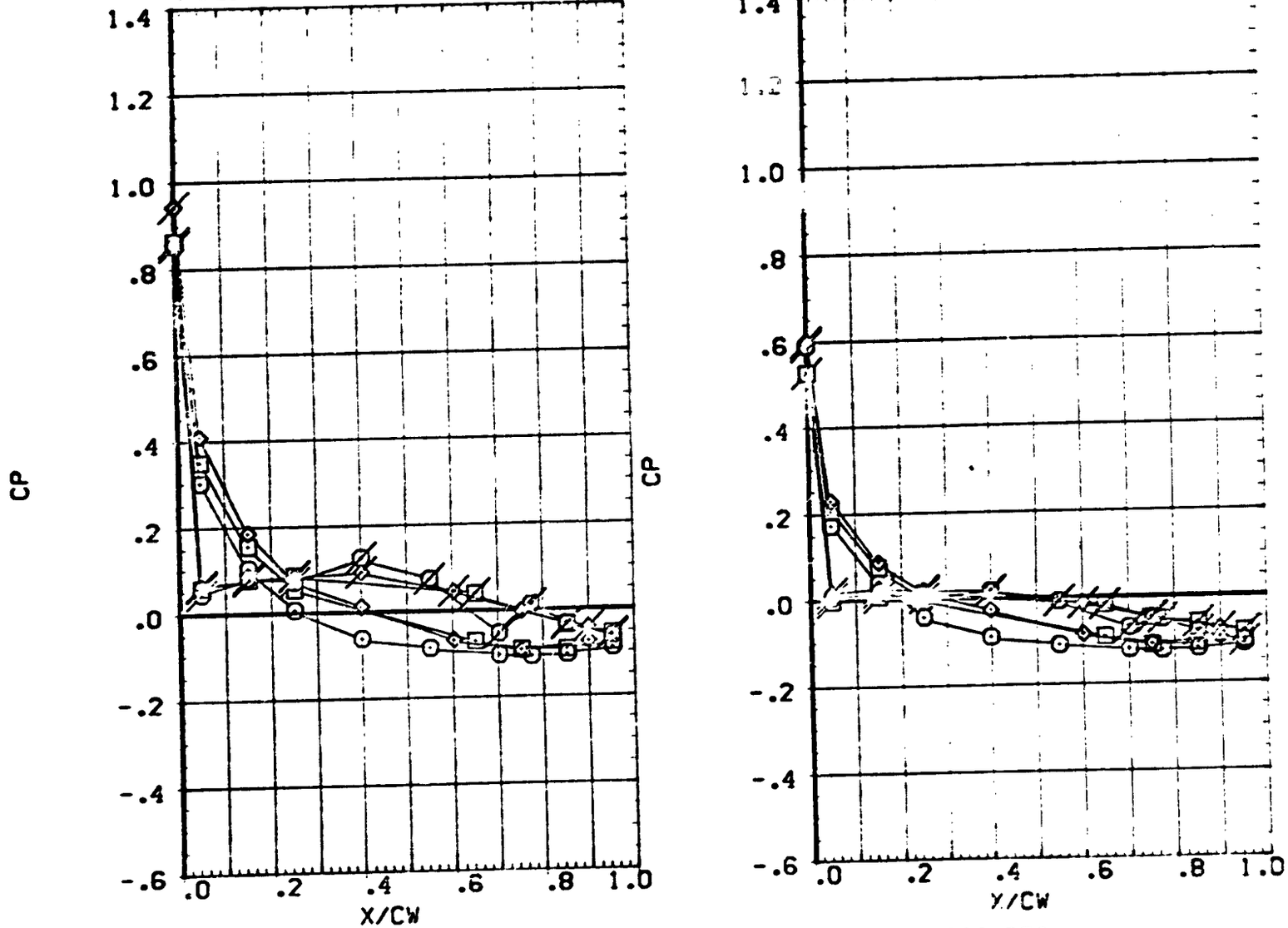
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B	BETA	MACH
	.573	-4.260	2.999
	.780	2.210	
◇	.887		

PARAMETRIC VALUES

ALPHA	-4.000	DB1NC	.500
FLAP2	.000	ELEVON	.000
FLAP3	.000		

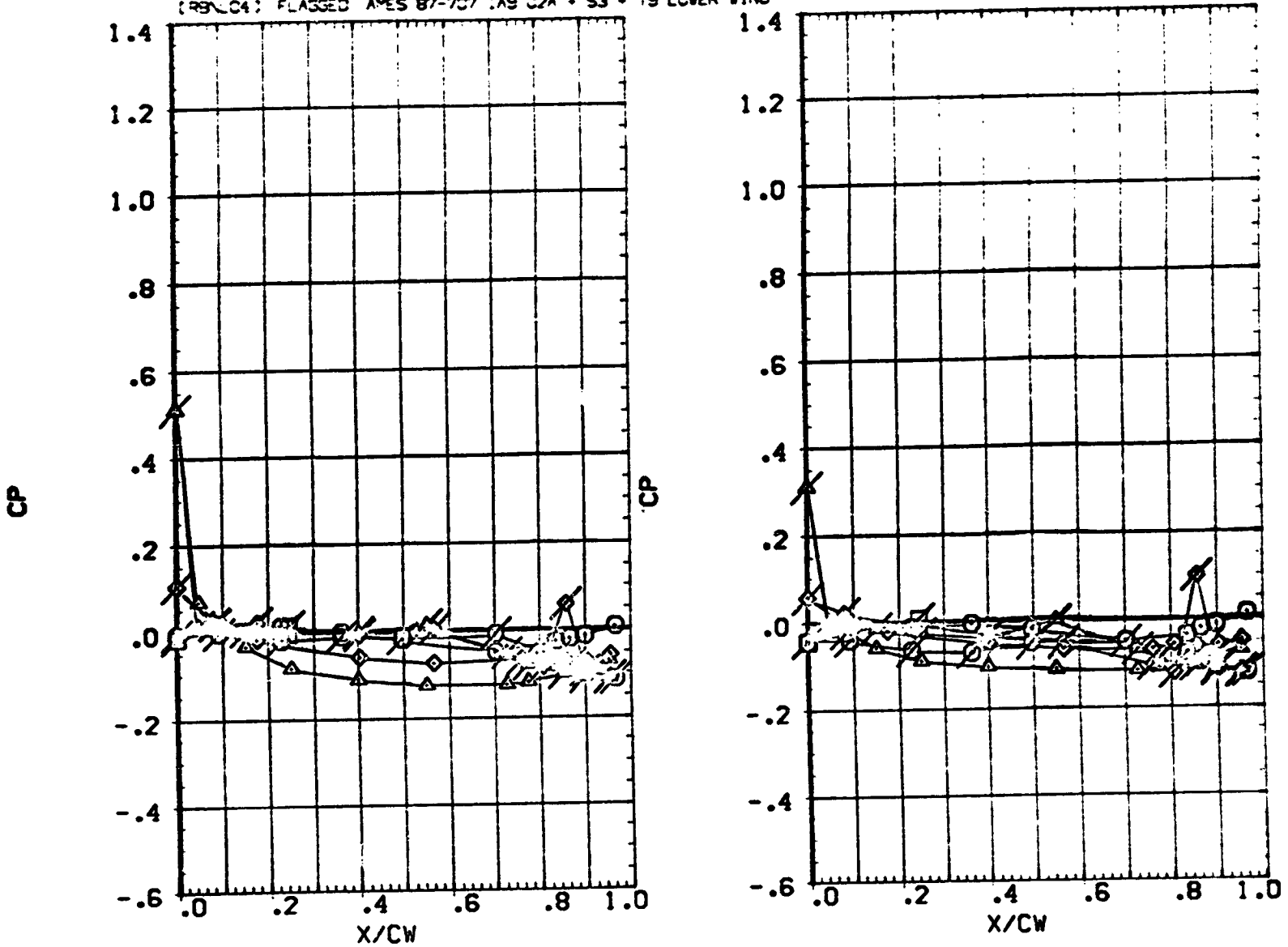
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[PBL_04]	OPEN	AMES 87-707 :A9 C2A + S3 + T9 UPPER WING
[PBL_04]	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

.364
.427
.534

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBNLG4) OPEN AMES 87-707 :A9 C2A + S3 + T9 UPPER WING
(RBNLG4) FLAGGED AMES 87-707 :A9 C2A + S3 + T9 LOWER WING

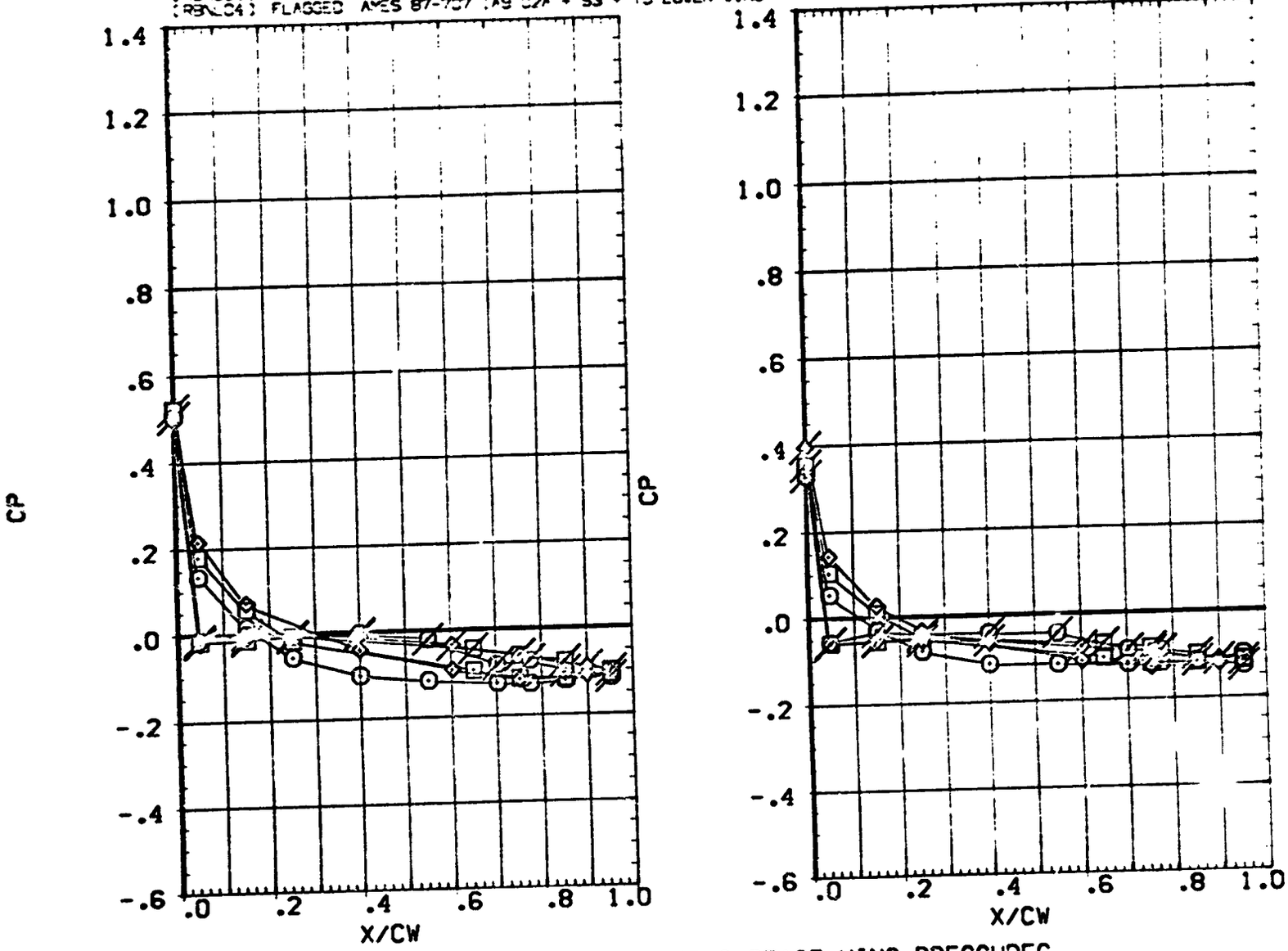


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/SW		
○	.673	4.380	2.999
□	.780	8.710	
◇	.887		

RUDDER	.000	ELEVON	.000
RUDFLP	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[RBNLD41]	OPEN	AMES 87-727 :A9 S2A + S3 + T9 UPPER WING
[RBNLD41]	FLAGGED	AMES 87-727 :A9 S2A + S3 + T9 LOWER WING



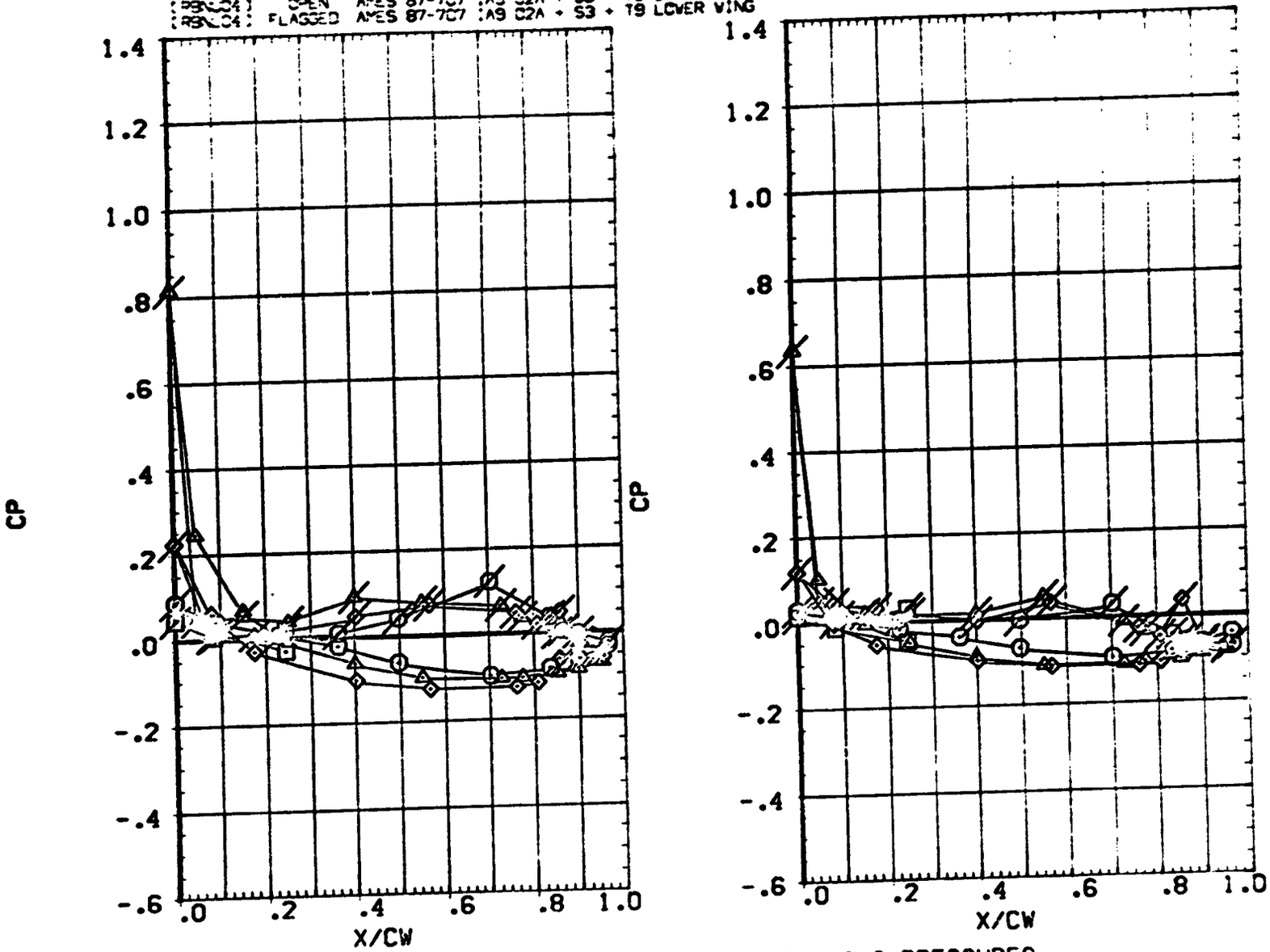
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B/2	BETAT	MACH
○	.299	-4.340	3.502
□	.364	2.260	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHAT	-4.000	SPOILR	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[redacted]	OPEN	AMES 87-707 :A9 C2A + S3 + T9 UPPER WING
[redacted]	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 LOWER WING



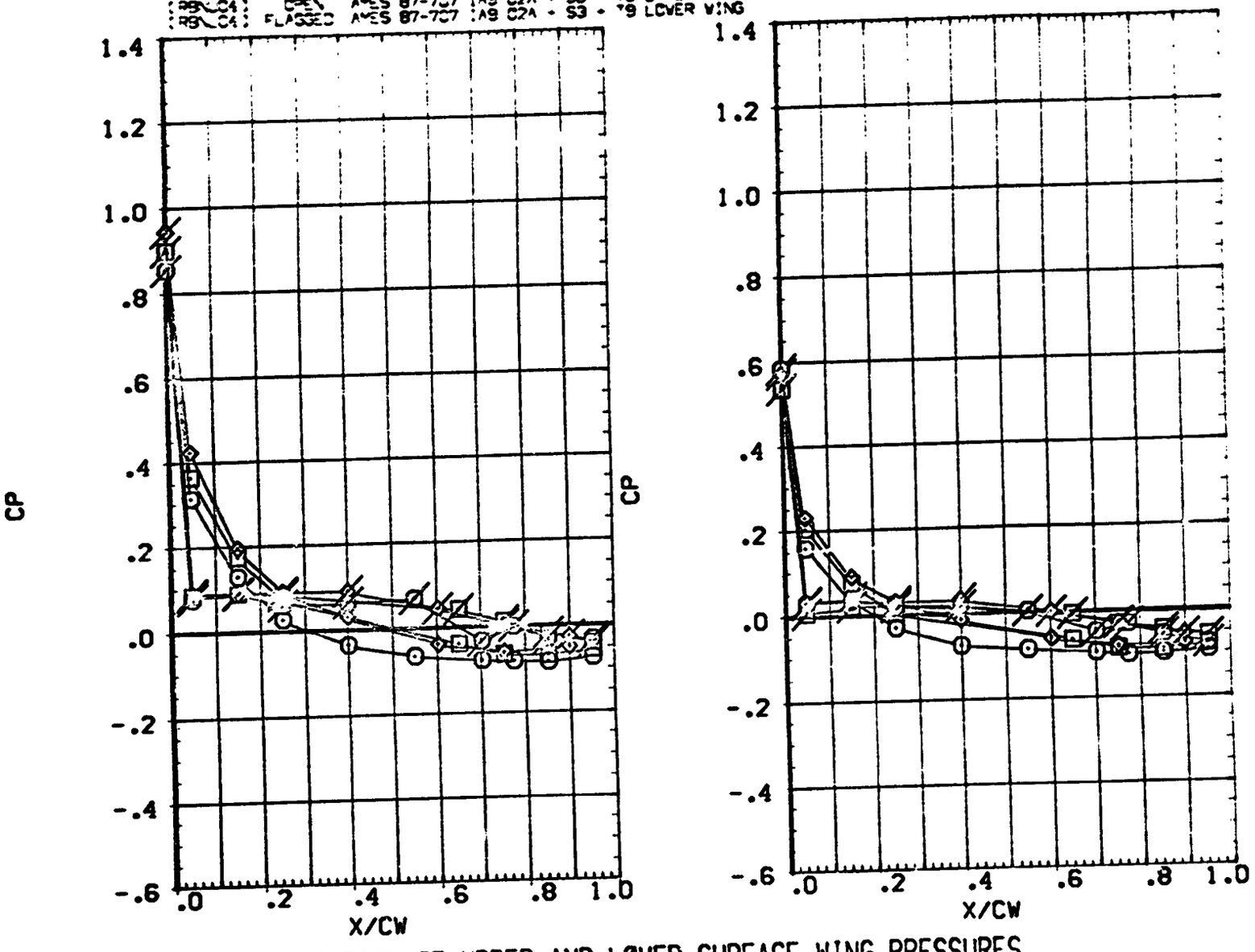
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B	BETA	MACH
○	.673	-4.340	3.502
□	.780	2.260	
◇	.887		

PARAMETRIC VALUES

ALPHAT	-4.000	DBDINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
RBLC04	OPEN	AMES 87-707 :A9 C2A + S3 + T9 UPPER WING
RBLC04	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 LOWER WING



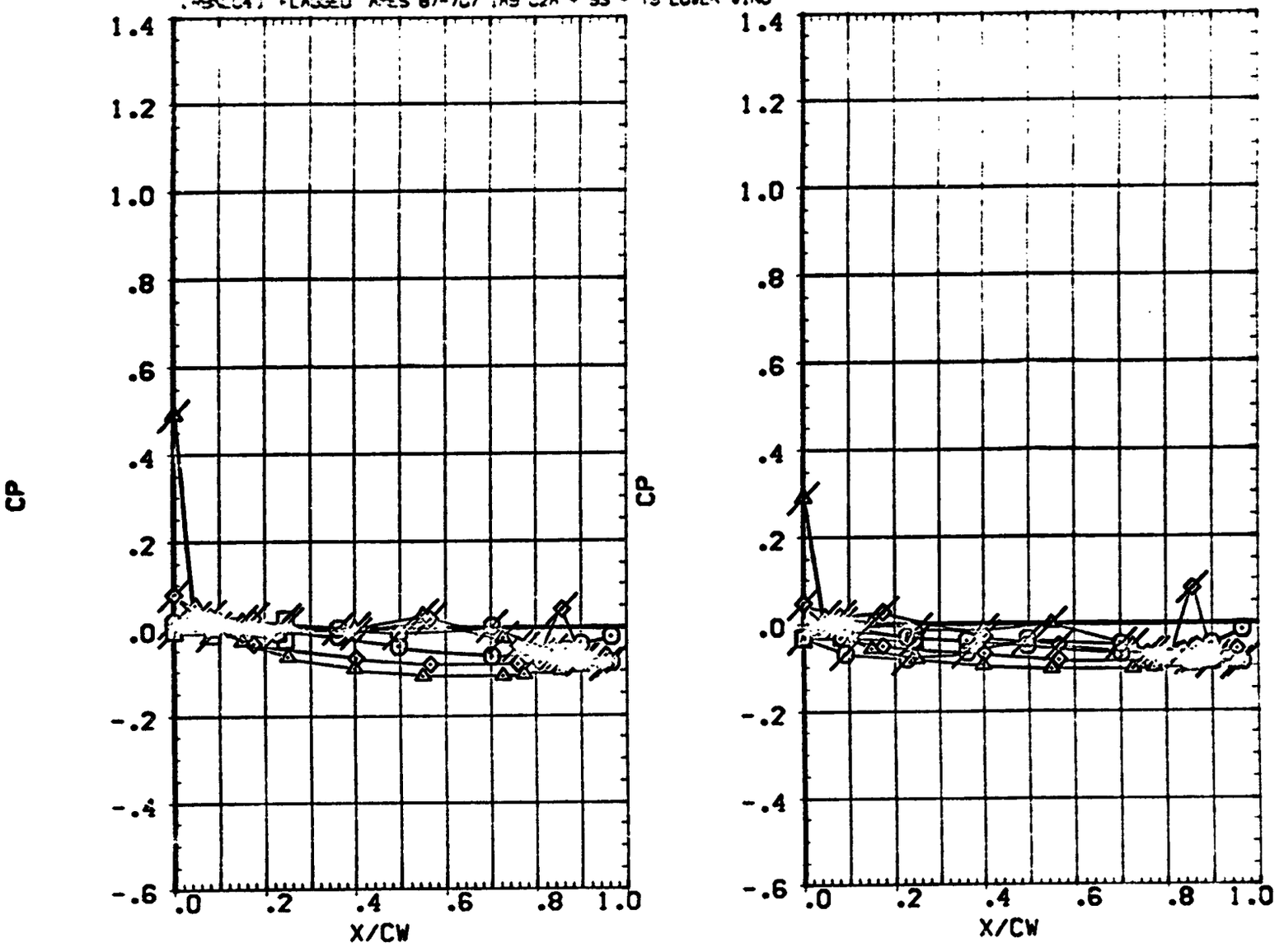
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.299	4.460	3.502
□	.364	8.870	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHAT	-4.000	SPRING	.500
RUDDER	.000	ELEVON	.000
ROLLER	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[PSNLC41]	OPEN	AMES 87-707 [A9 C2A + S3 + T9 UPPER WING
[PSNLC41]	FLAGGED	AMES 87-707 [A9 C2A + S3 + T9 LOWER WING



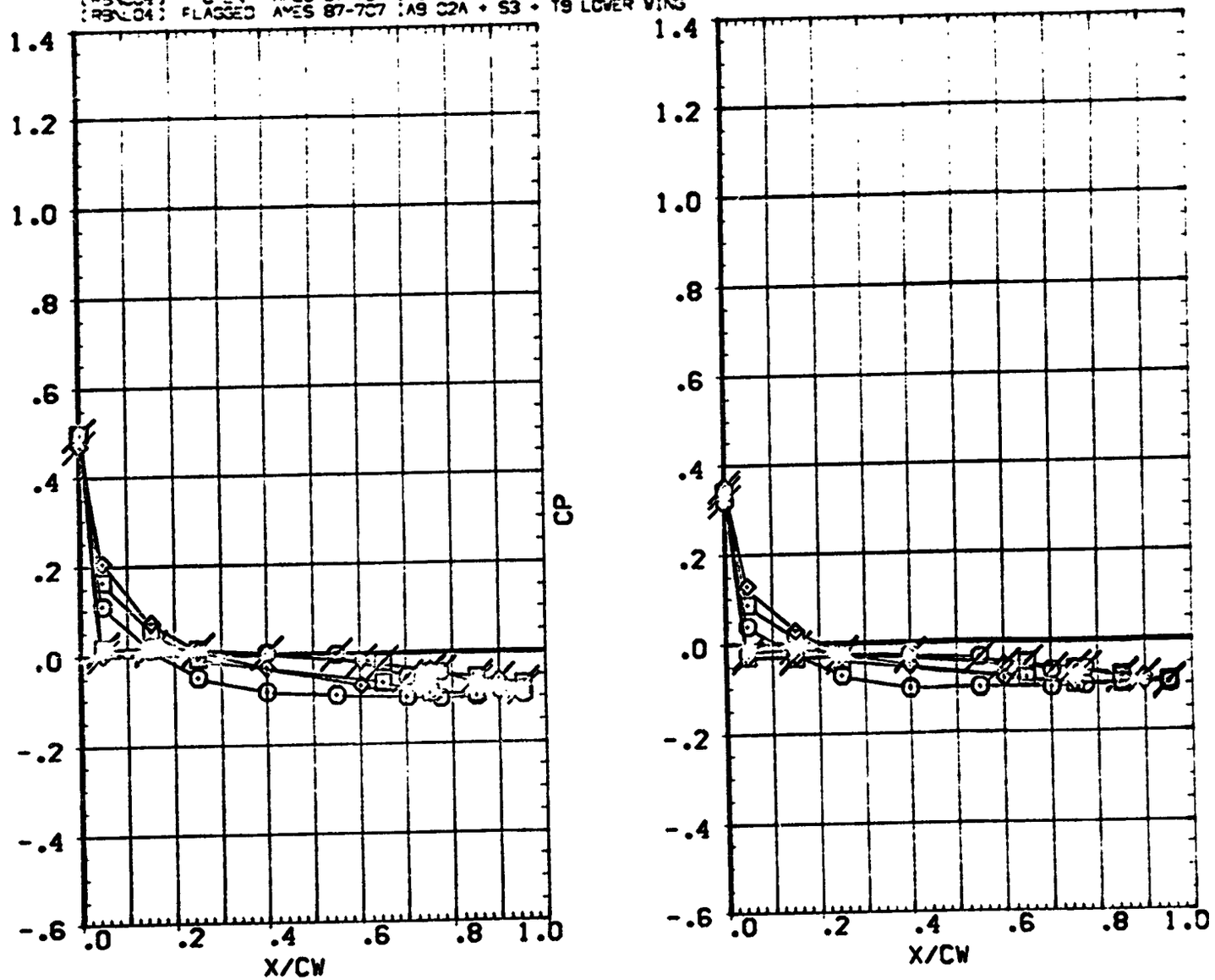
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.673	4.460	3.502
□	.780	8.870	
◇	.887		

PARAMETRIC VALUES

ALPHAT	-4.000	DRIVNG	.500
RUDDER	.000	ELEVON	.000
AILER	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[redacted]	OPEN	AMES 87-707 :A9 C2A + S3 + T9 UPPER WING
[redacted]	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 LOWER WING



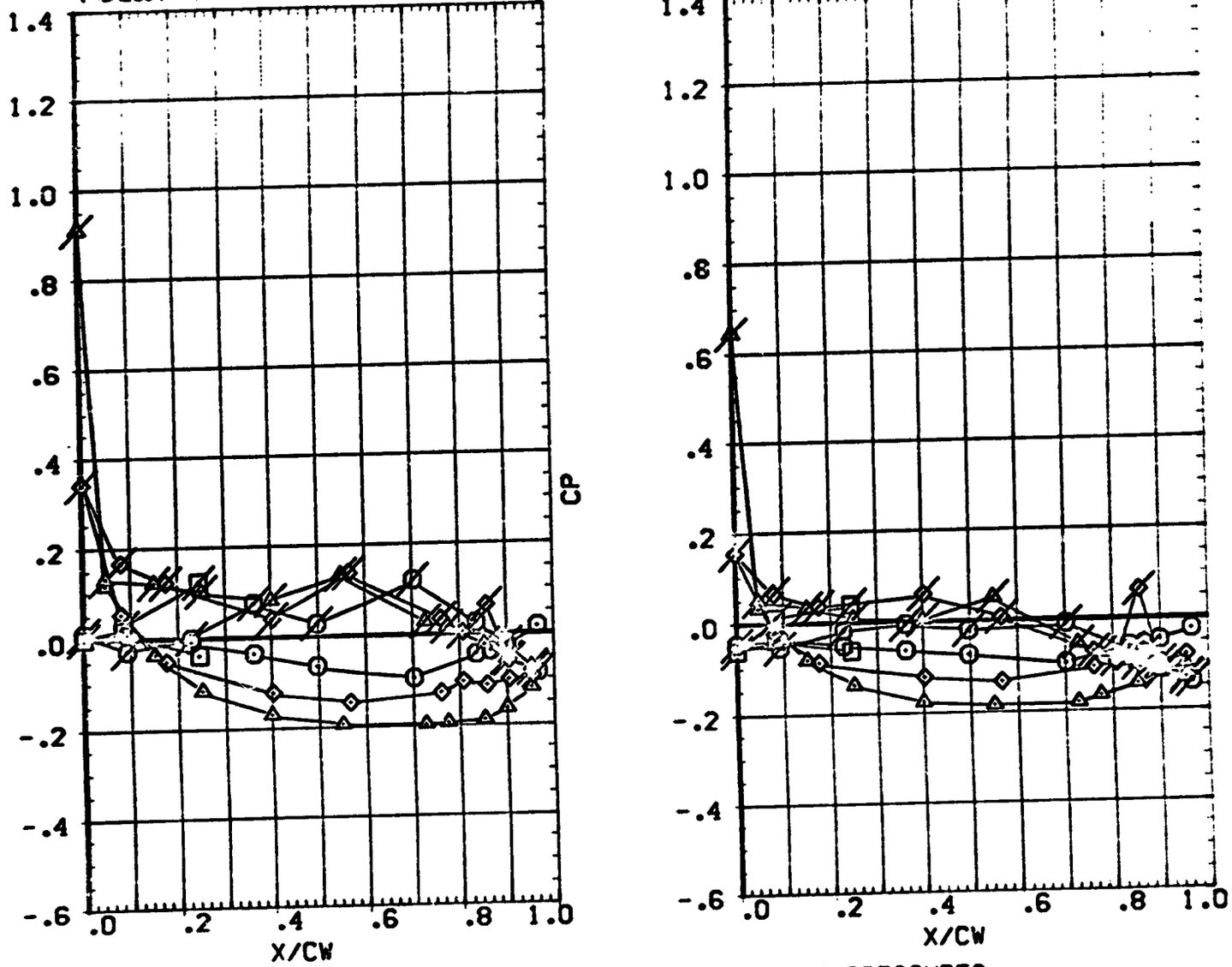
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.299	-4.190	2.498
□	.364	2.170	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHAT	.000	SPOINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PENCOS)	OPEN	AMES 87-707 IA9 C2A + S3 + T9 UPPER WING
(PENCOS)	FLAGGED	AMES 87-707 IA9 C2A + S3 + T9 LOWER WING



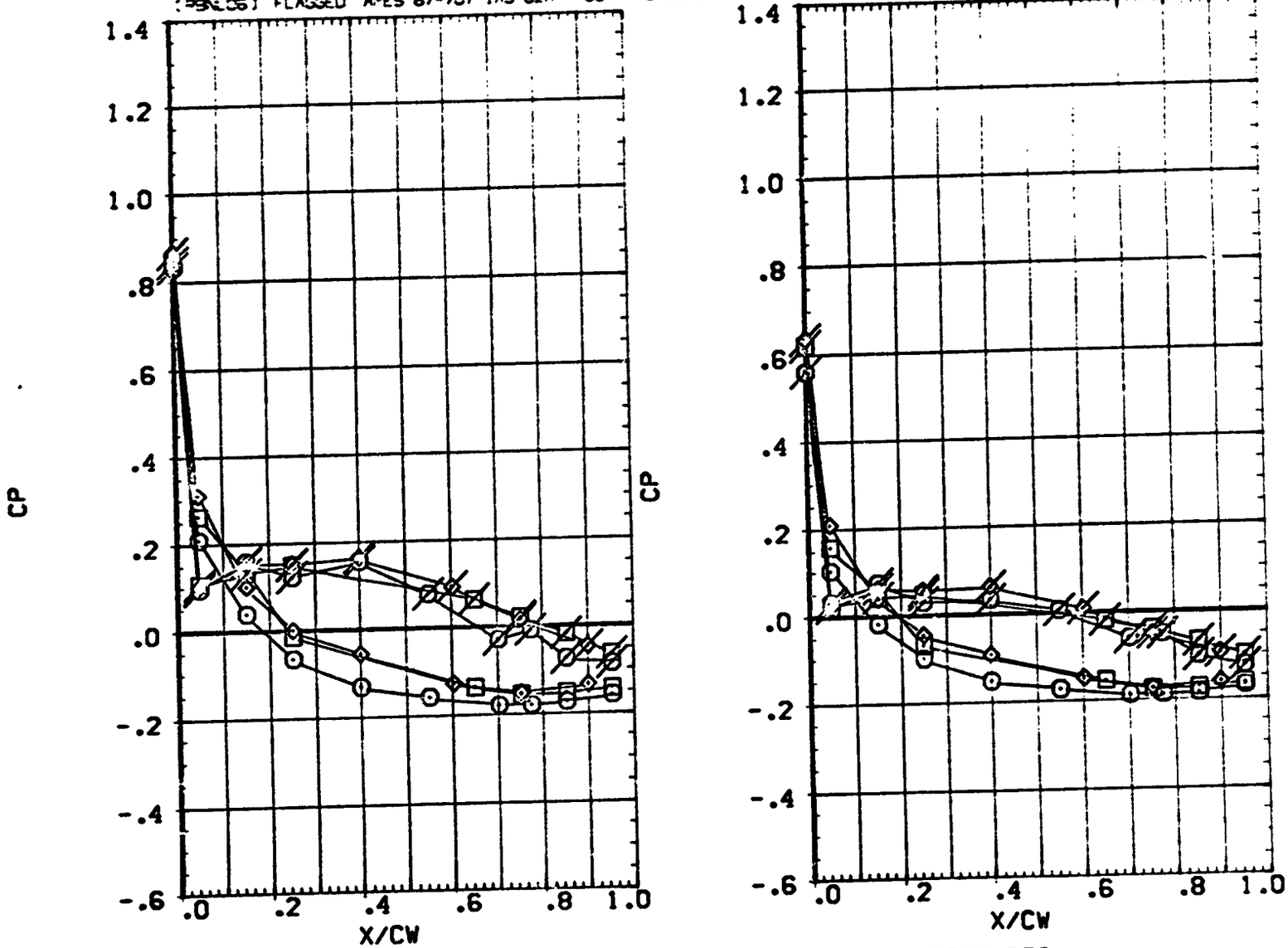
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B#	BETAT	MACH
	.673	-4.190	2.498
	.780	2.170	
	.897		

PARAMETRIC VALUES

ALPHAT	.000	DSPINC	.500
RUDDER	.000	ELEVON	.000
ROLLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PSNLOG)	OPEN	AMES 87-707 IA9 C2A + S3 + T9 UPPER WING
(PSNLOG)	FLAGGED	AMES 87-707 IA9 C2A + S3 + T9 LOWER WING



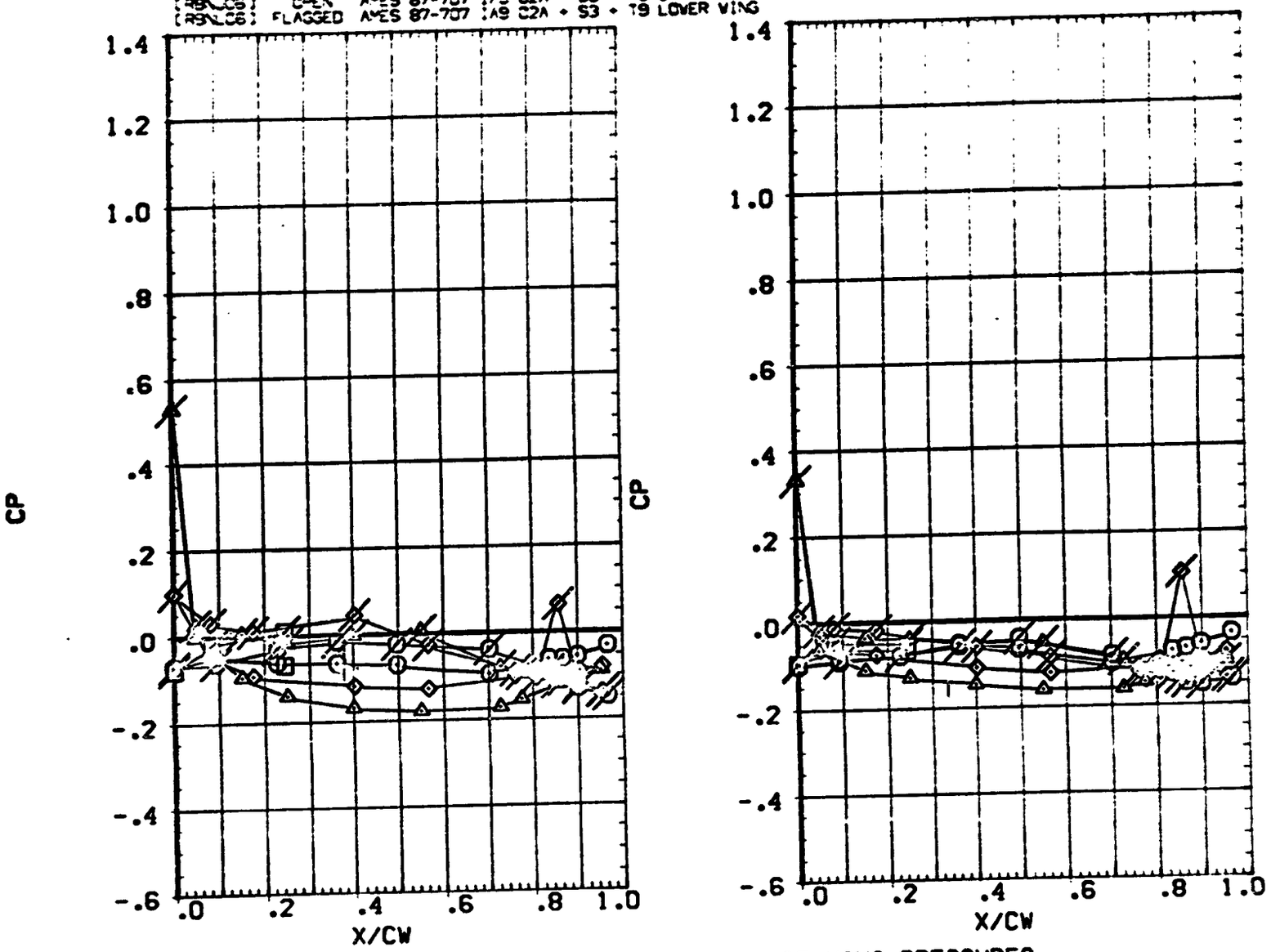
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.299	4.290	2.498
□	.364	8.540	
◇	.427		
△	.534		

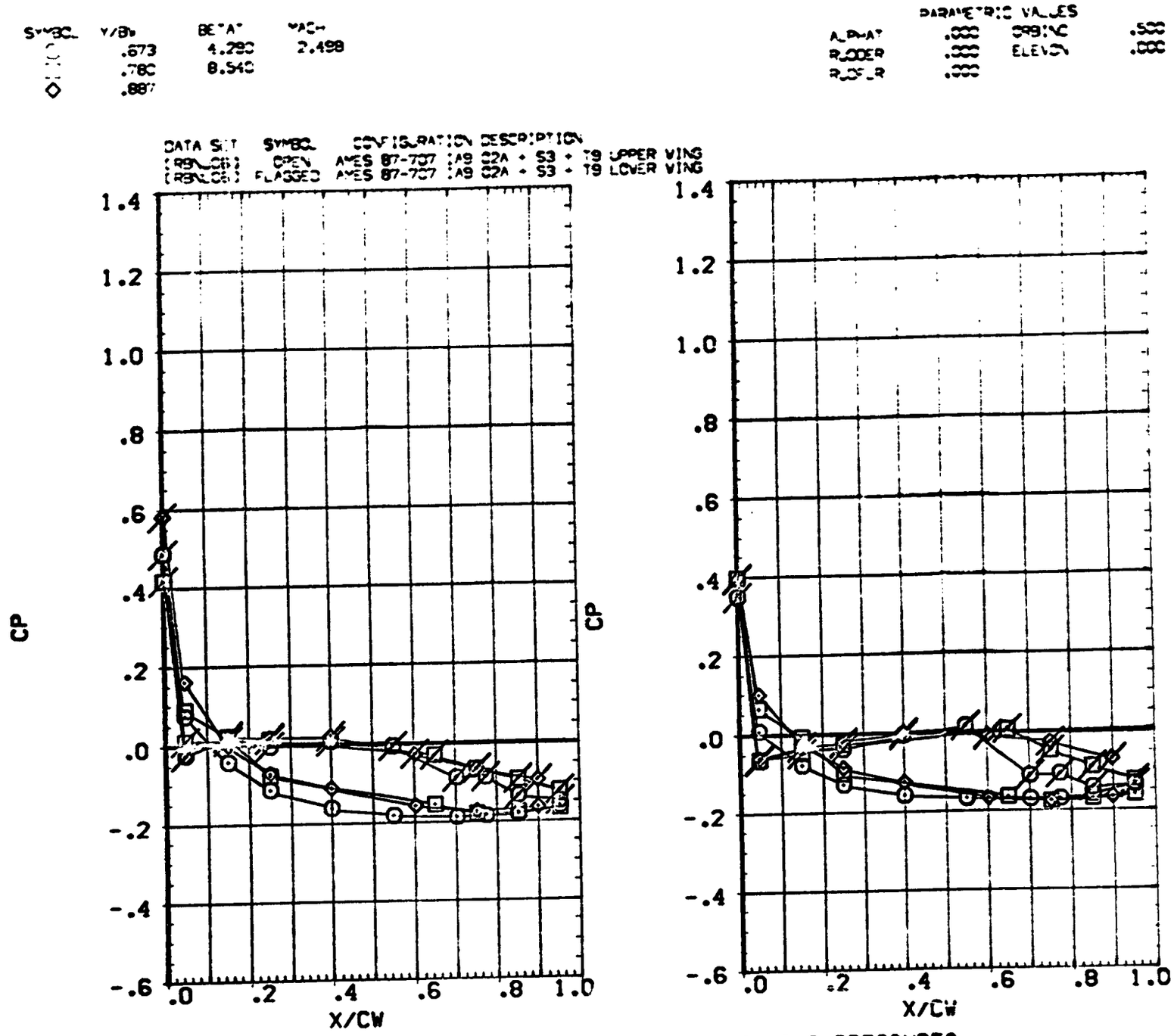
PARAMETRIC VALUES

ALPHAT	.000	DRBINC	.500
RUDDER	.0000	ELEVON	.0000
ROLLR	.0000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RSNLOG)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 UPPER WING
(RSNLOG)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



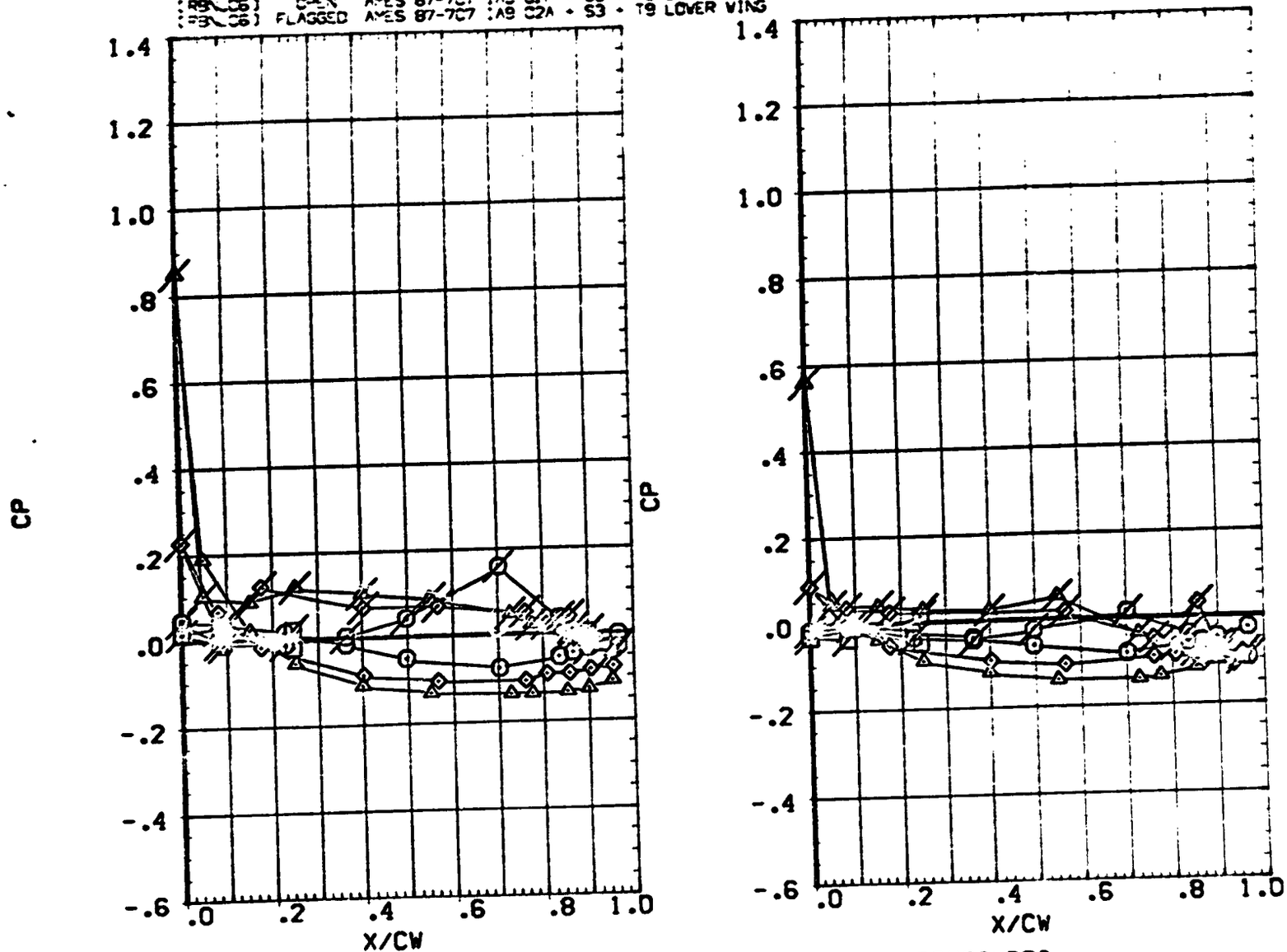
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B/2	BETAT	MACH
	.299	-4.770	2.999
	.364	2.210	
	.427		
	.534		

PARAMETRIC VALUES

ALPHAT	.000	DBIAS	.500
RUDDER	.000	ELEVON	.000
RUDFLP	.000		

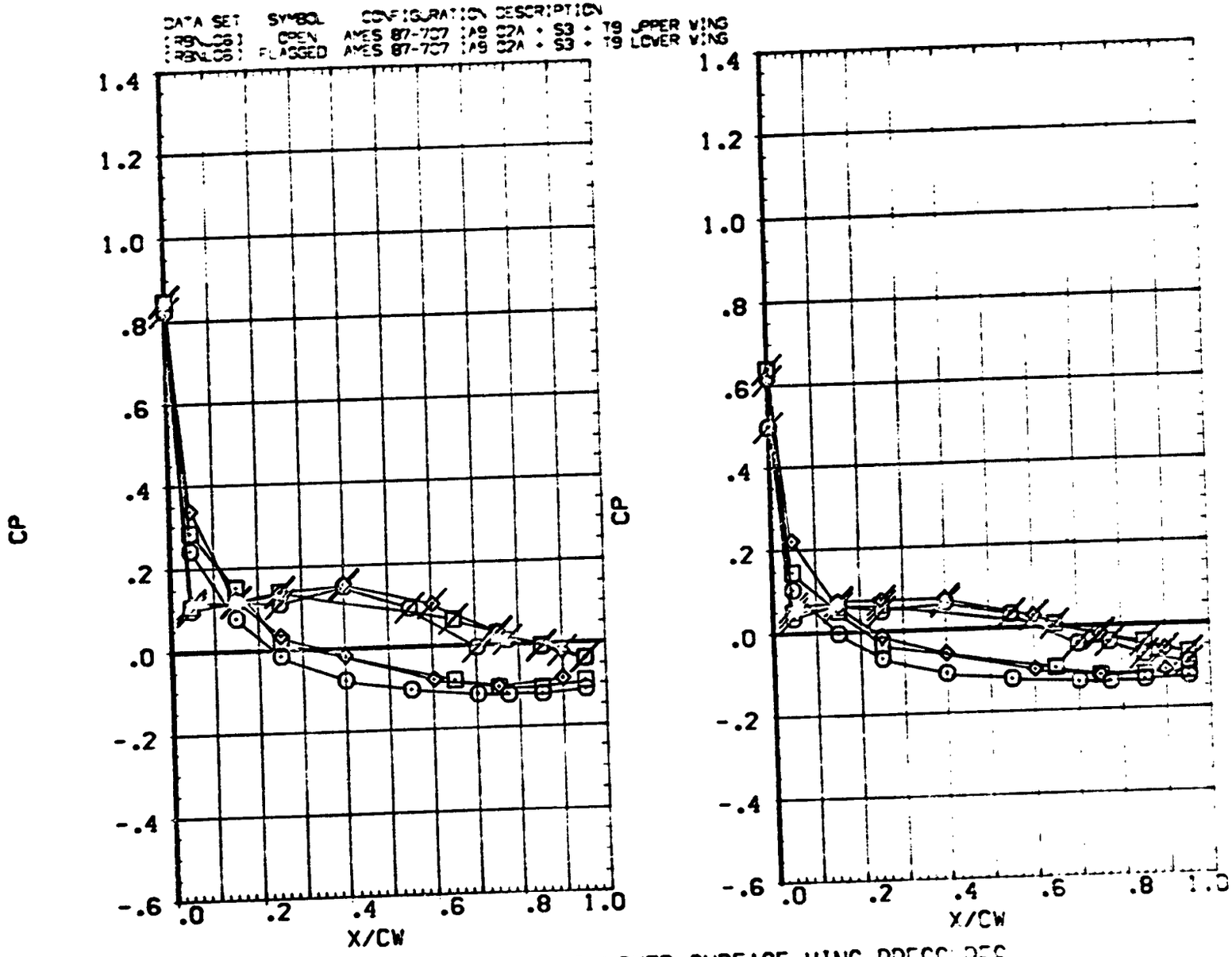
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RB_06)	OPEN	AMES 87-7C7 :A9 C2A + S3 + T9 UPPER WING
(FB_06)	FLAGGED	AMES 87-7C7 :A9 C2A + S3 + T9 LOWER WING



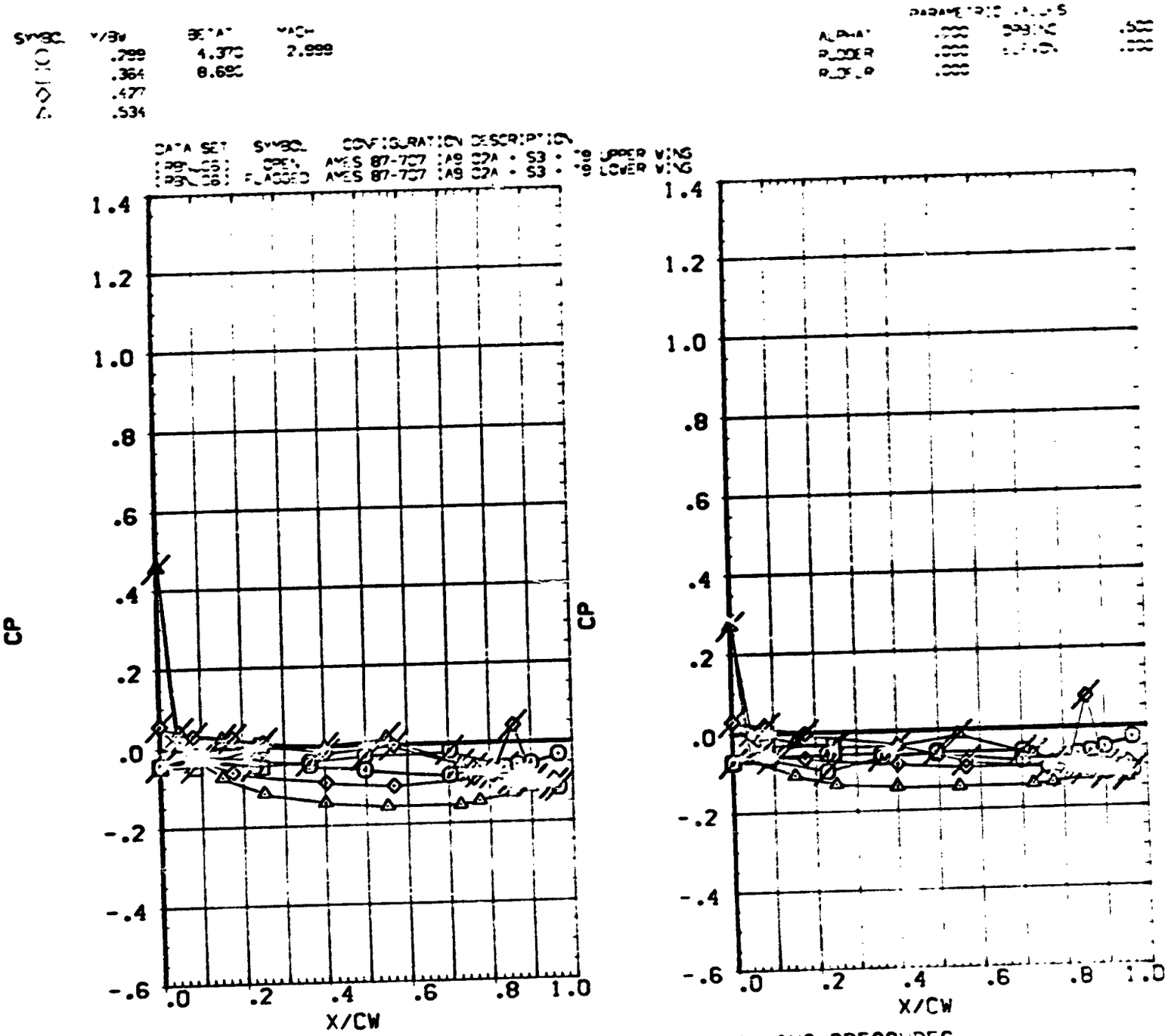
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

.873 -4.270 2.999
.780 2.210
.887

RUDDER
RUDDER



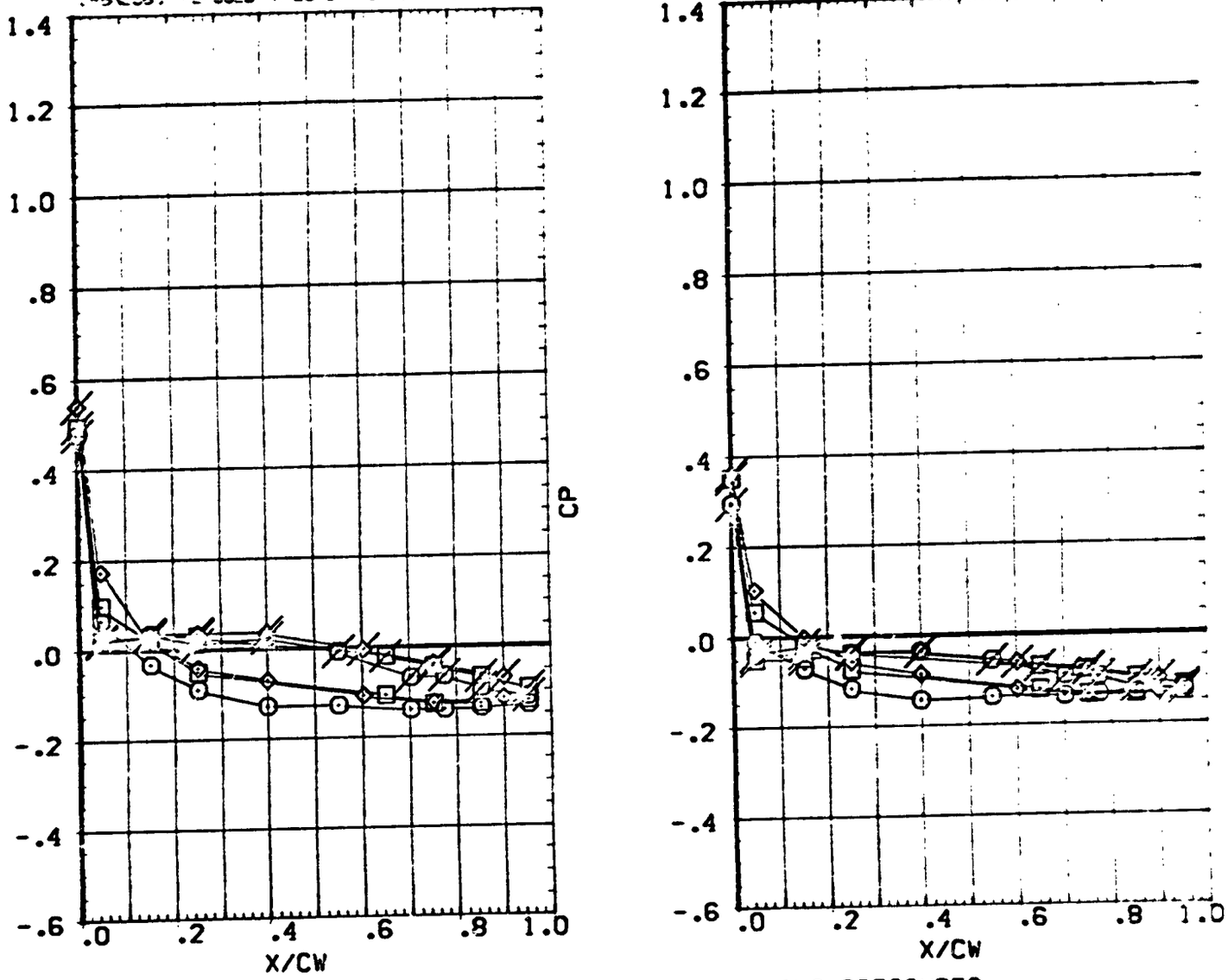
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B	BETA	MACH
	.673	4.370	2.999
	.780	8.690	
◇	.887		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[illegible]	OPEN	AMES 87-707 :A9 D2A + S3 + T9 UPPER WING
[illegible]	FLAGGED	AMES 87-707 :A9 D2A + S3 + T9 LOWER WING



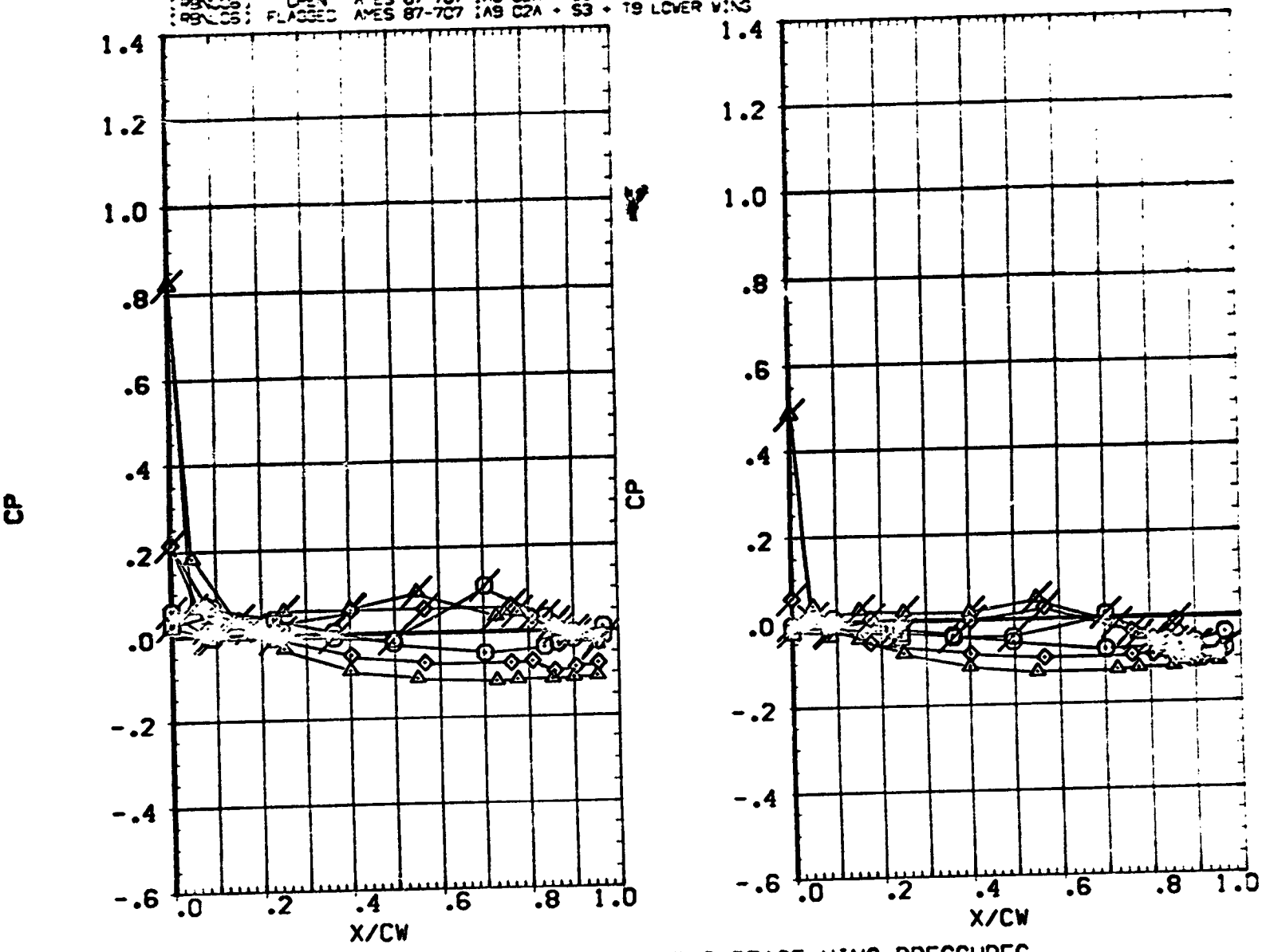
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B/2	BETA	MACH
○	.299	-4.340	3.502
▷	.364	2.260	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHAT	.000	SPOILR	.500
RUDDER	.000	ELEVR	.000
RUDFLR	.000		

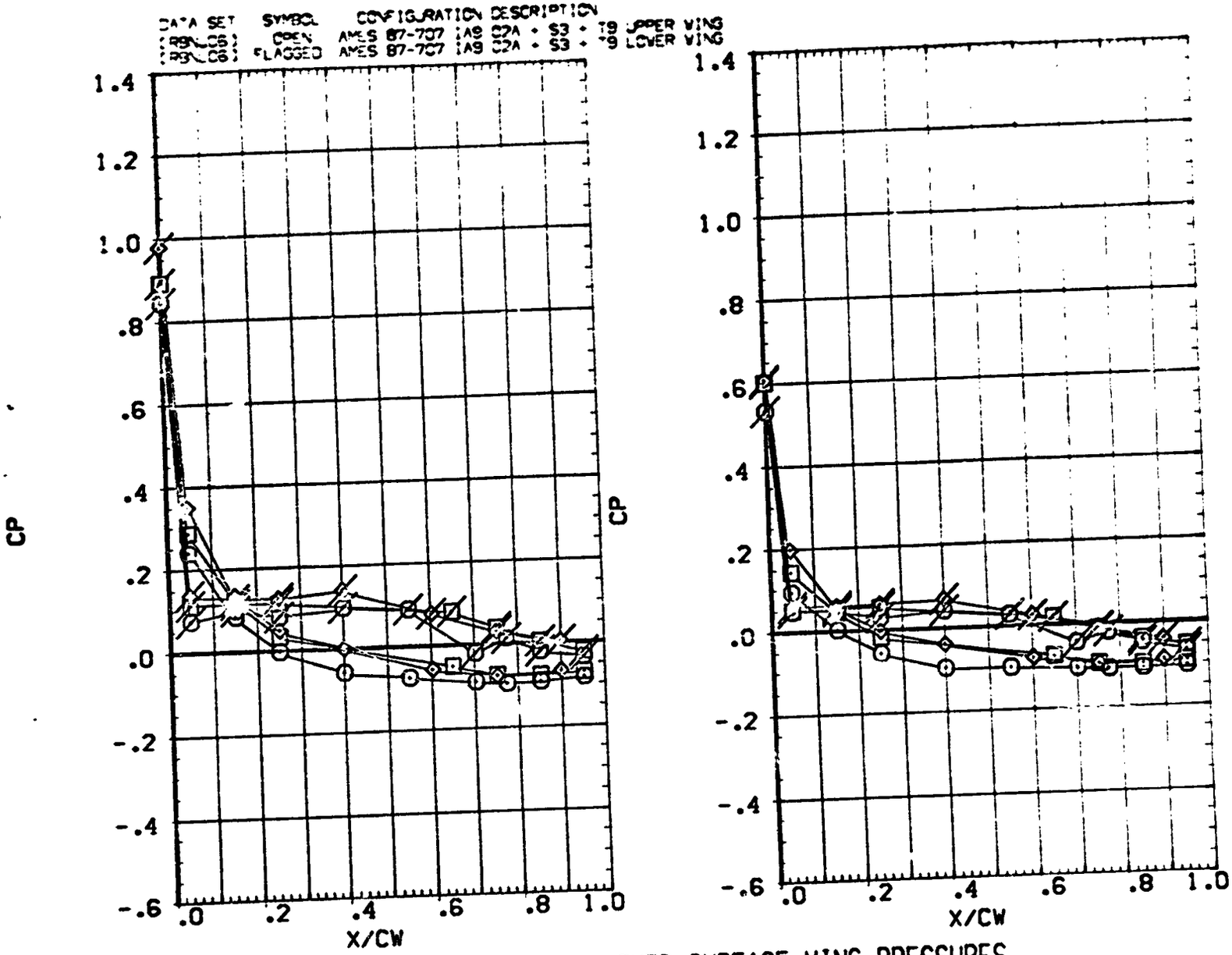
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PBNLOS)	OPEN	AMES 87-707 IA9 C2A + S3 + T9 UPPER WING
(PBNLOS)	FLAGGED	AMES 87-707 IA9 C2A + S3 + T9 LOWER WING



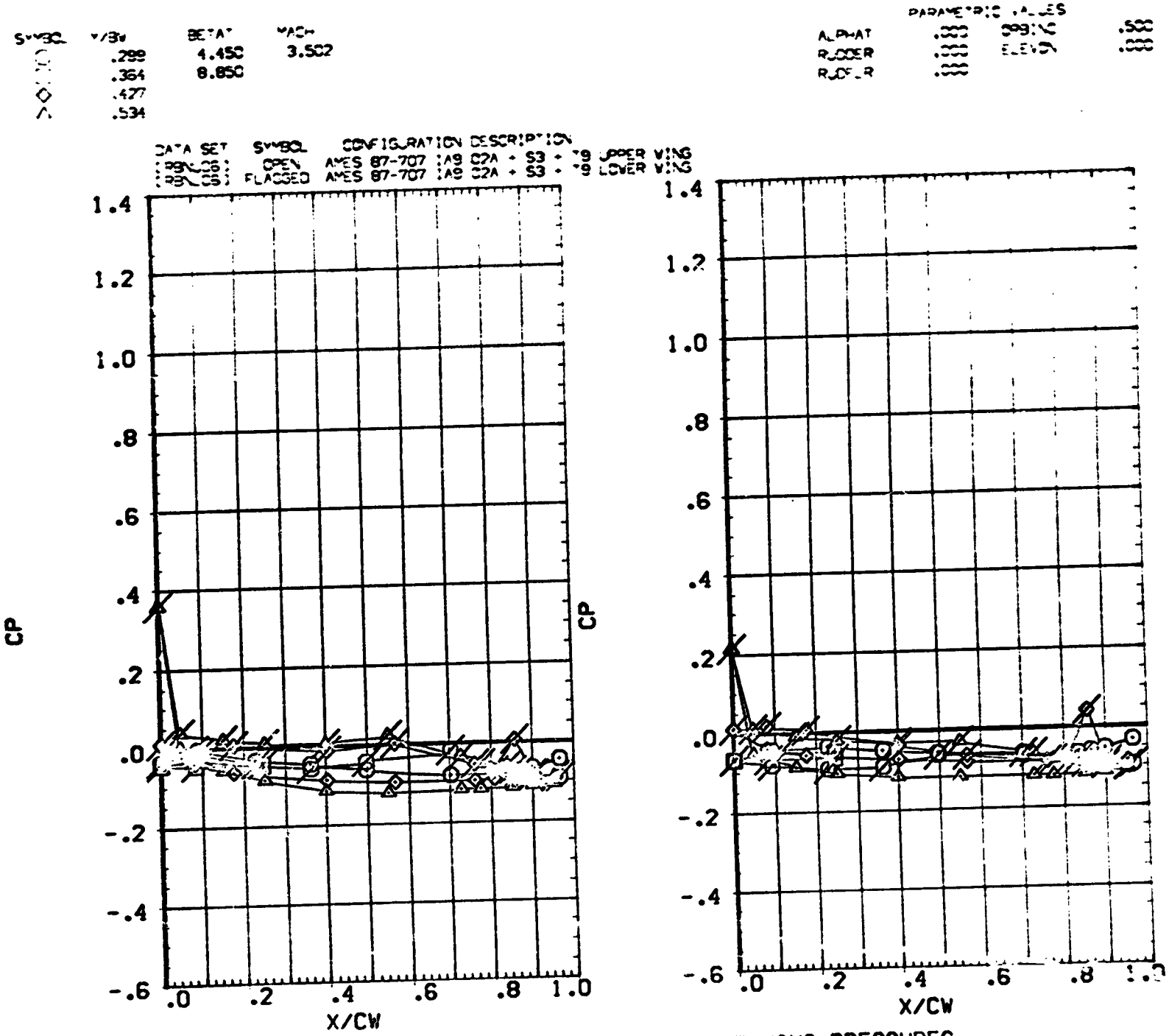
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	X/CW	BETA	U
○	.673	-4.340	3.502
□	.780	2.760	
◇	.887		

RUDDER .000 ELEVON .000
RUDFLR .000



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

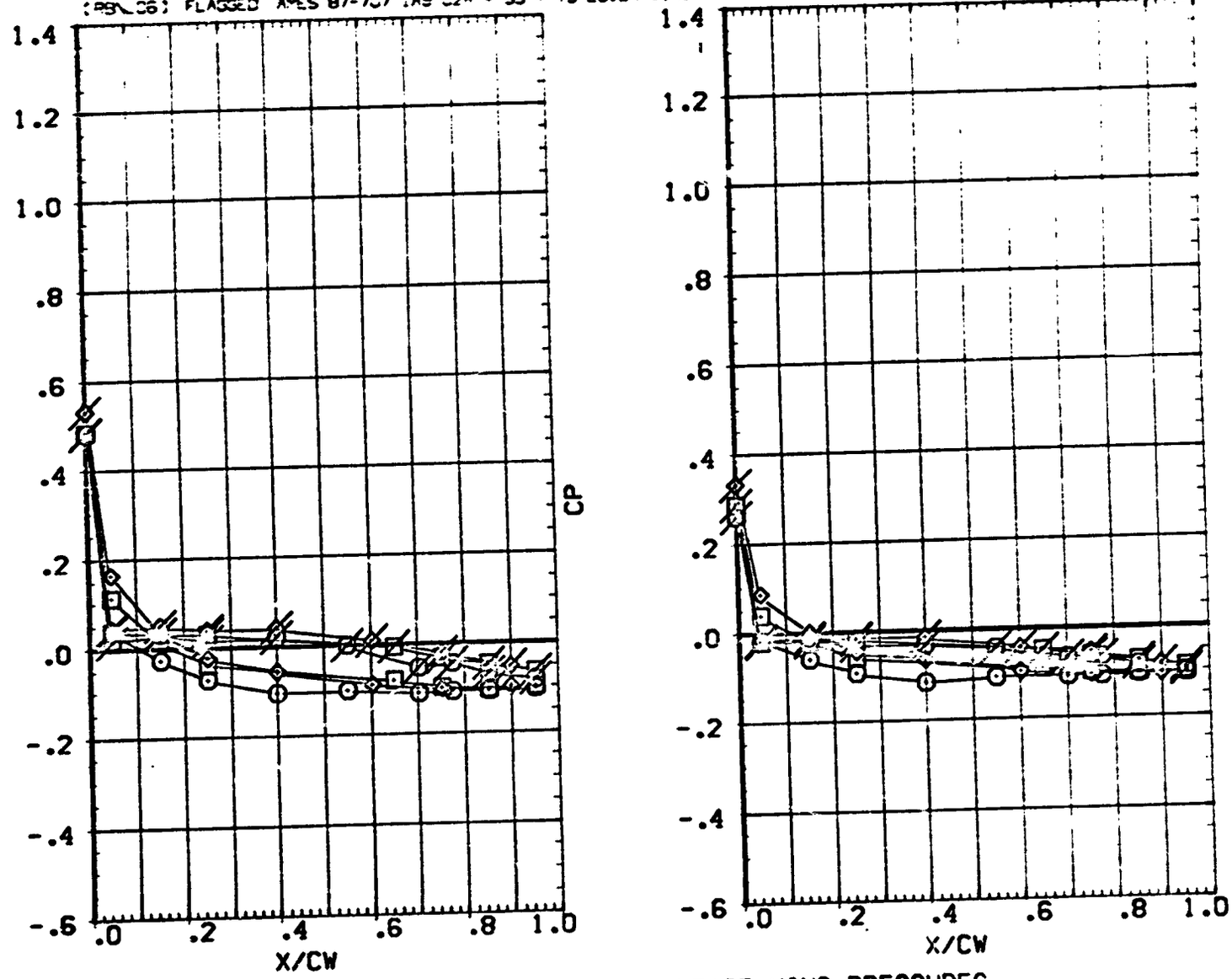


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BW	BETAT	MACH
○	.673	4.450	3.502
□	.780	8.850	
◇	.887		

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[RBNL06]	OPEN	AMES 87-707 [A9 02A + S3 + T9 UPPER WING
[RBNL06]	FLAGGED	AMES 87-707 [A9 02A + S3 + T9 LOWER WING



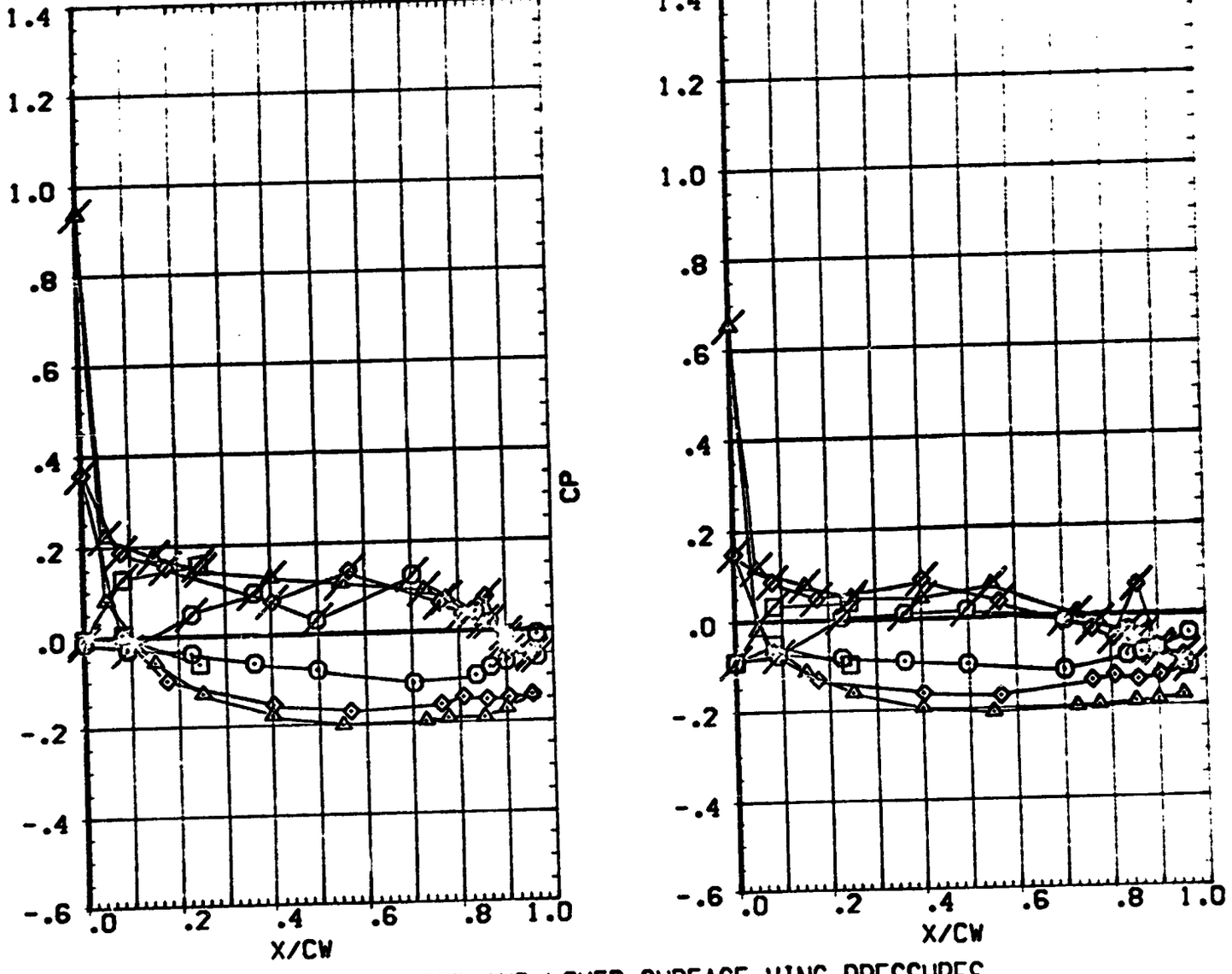
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B	BETA	MACH
	.299	-4.:80	2.498
	.364	2.:70	
◇	.427		
△	.534		

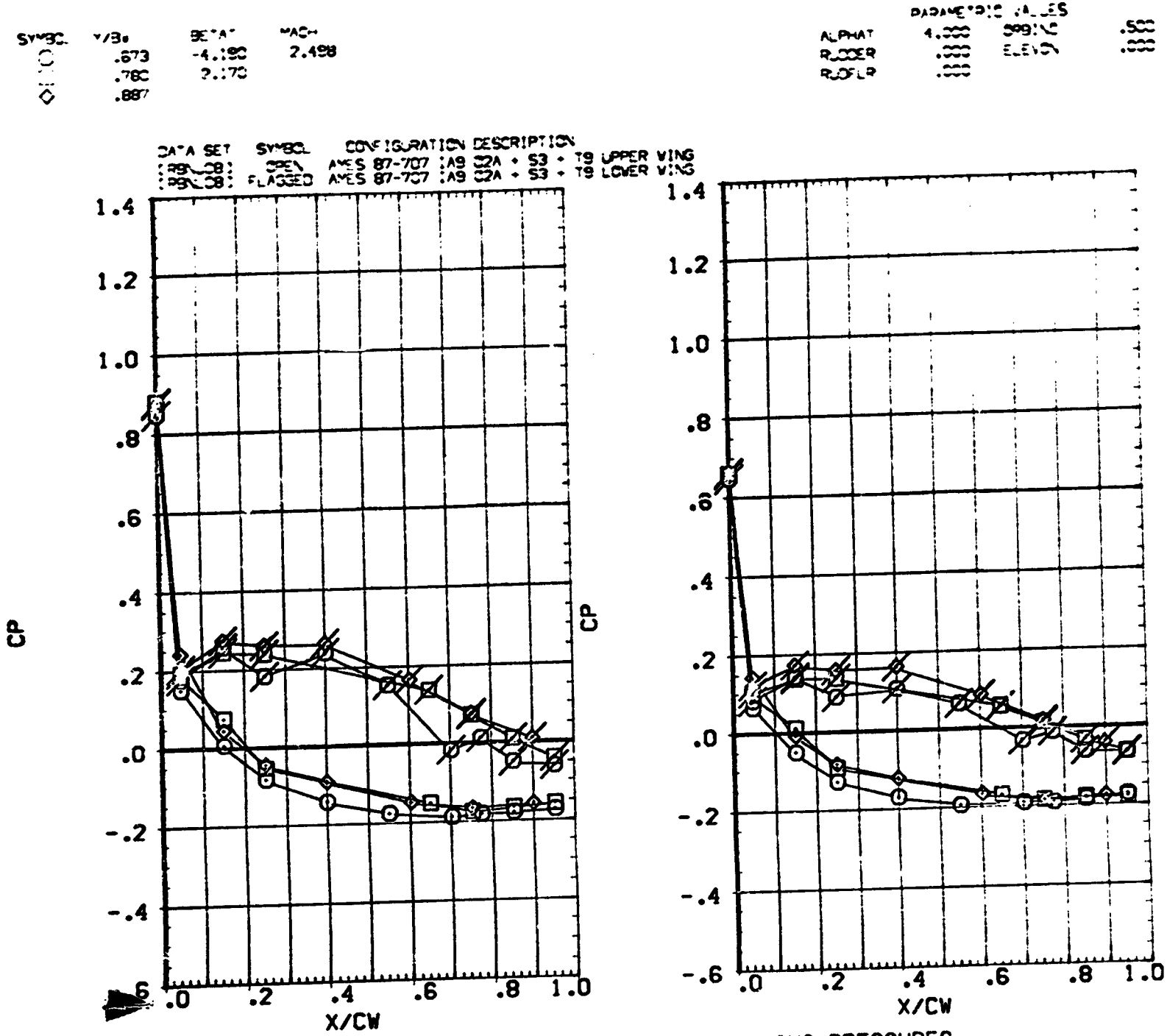
PARAMETRIC VALUES

ALPHAT	4.000	DELTA	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
PSI_OB	OPEN	AMES 87-707 :A9 C2A + S3 + T9 UPPER WING
PSI_OB	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



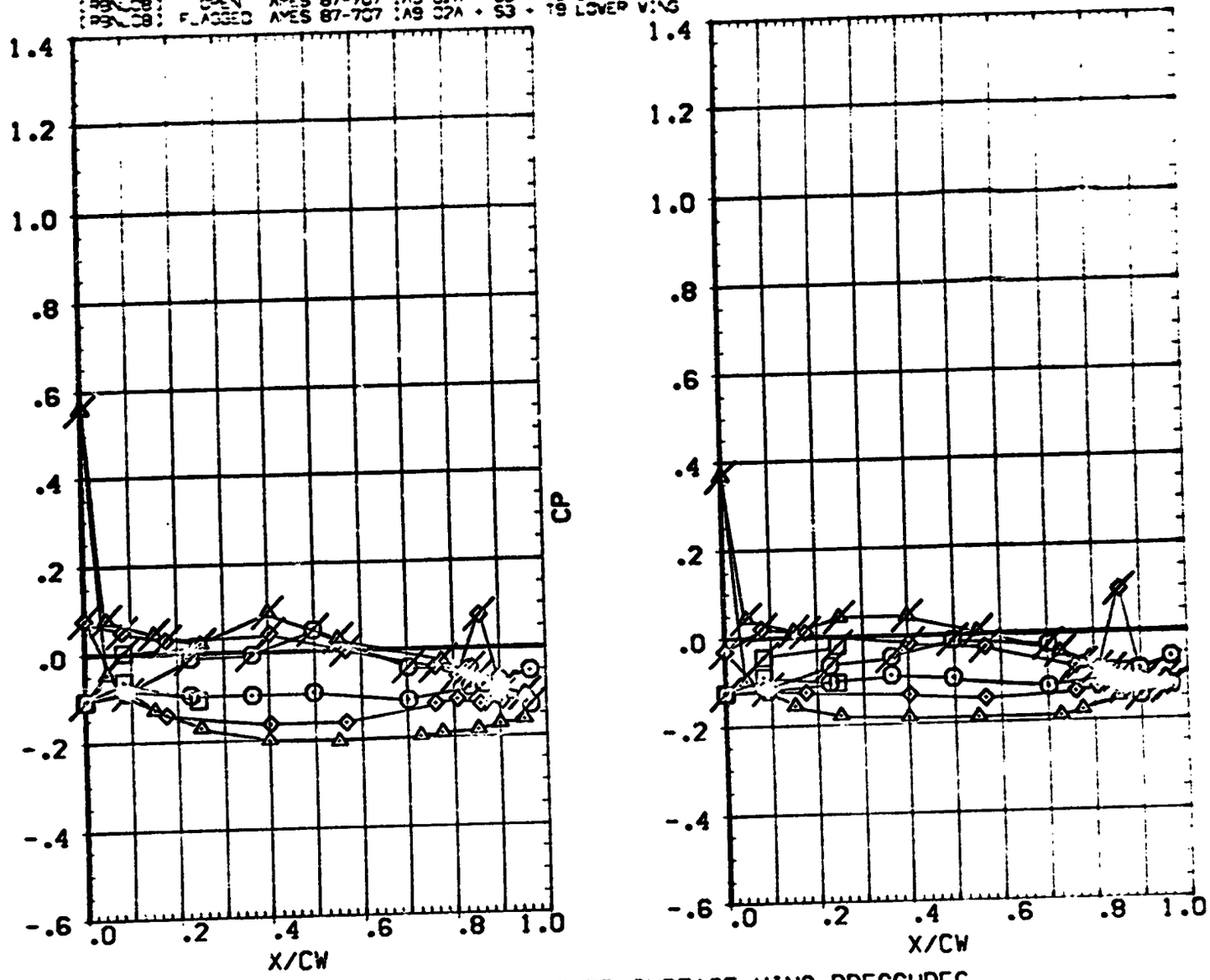
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B/2	BETA	MACH
○	.299	4.300	2.498
□	.364	8.550	
◇	.427		
△	.534		

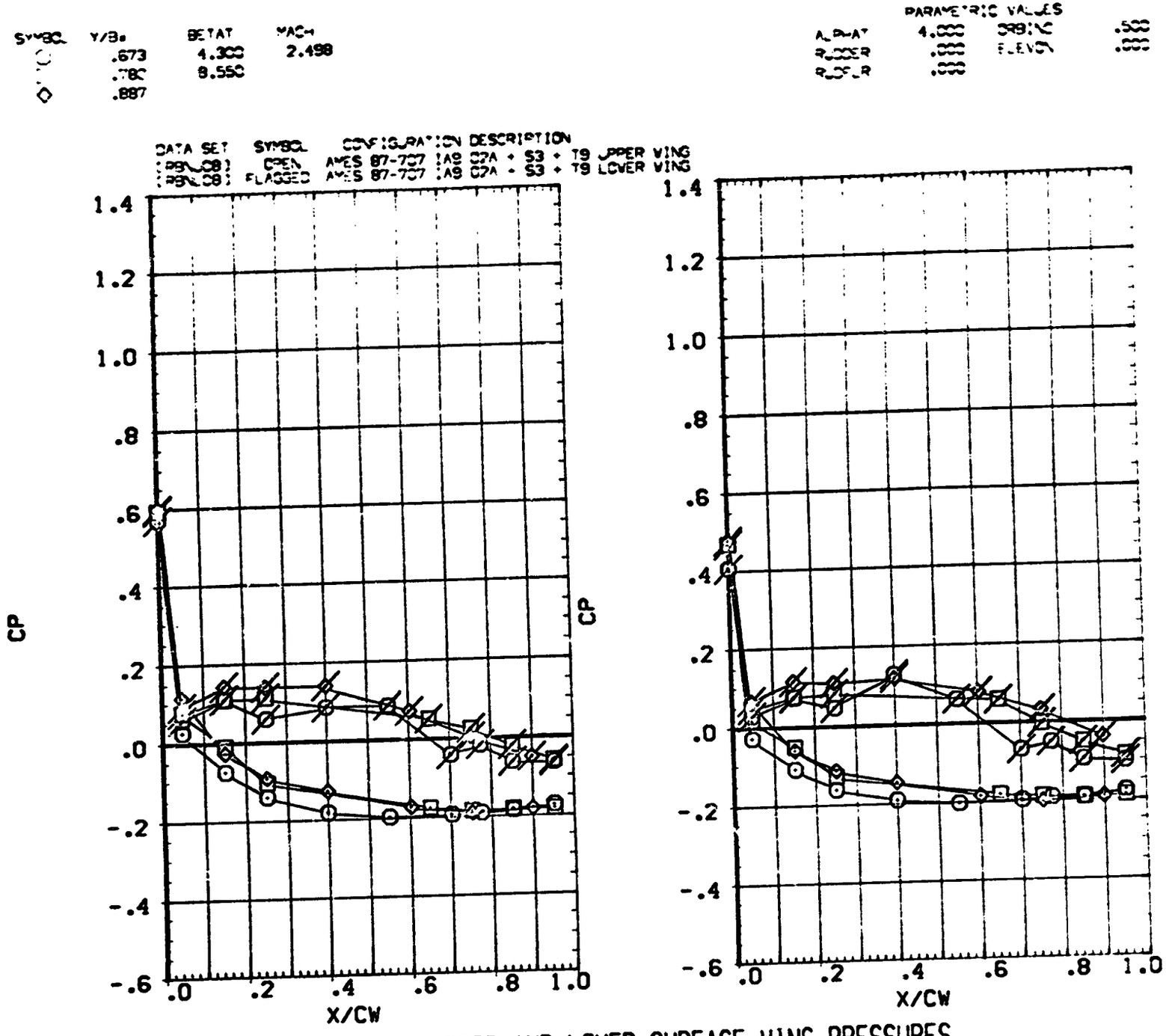
PARAMETRIC VALUES

ALPHAT	4.000	DOWNC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(P3XL08)	OPEN	AMES 87-707 :A9 D2A + S3 + T9 UPPER WING
(P3XL08)	FLAGGED	AMES 87-707 :A9 D2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



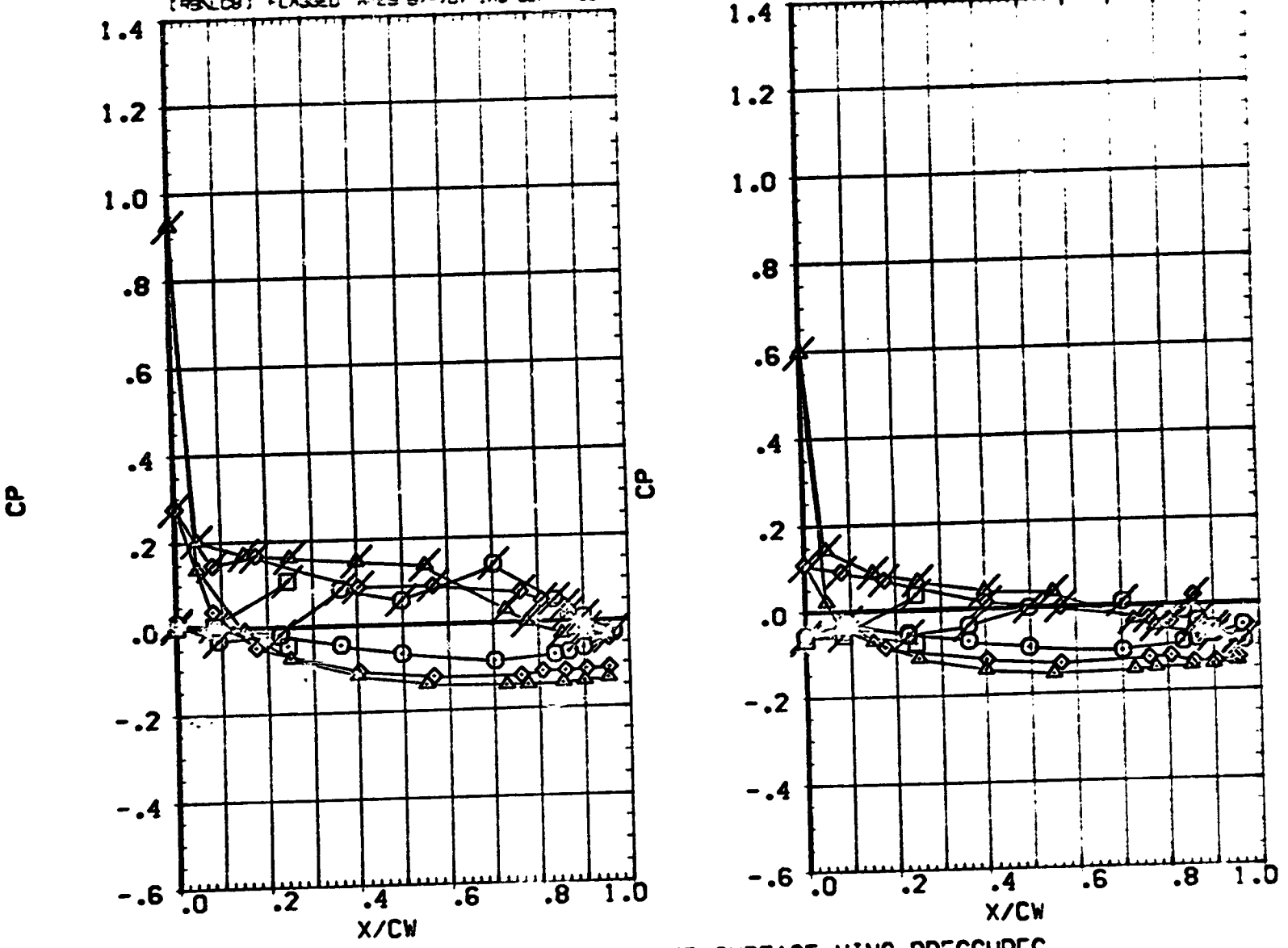
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	BETAT	MACH
○	.799	-4.760	7.999
□	.364	2.210	
◇	.427		
△	.534		

PARAMETRIC VALUES

ALPHAT	4.000	SPOILC	.500
RUDDER	.000	ELEVON	.000
RUDDLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RUNLOG)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 UPPER WING
(RUNLOG)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 LOWER WING



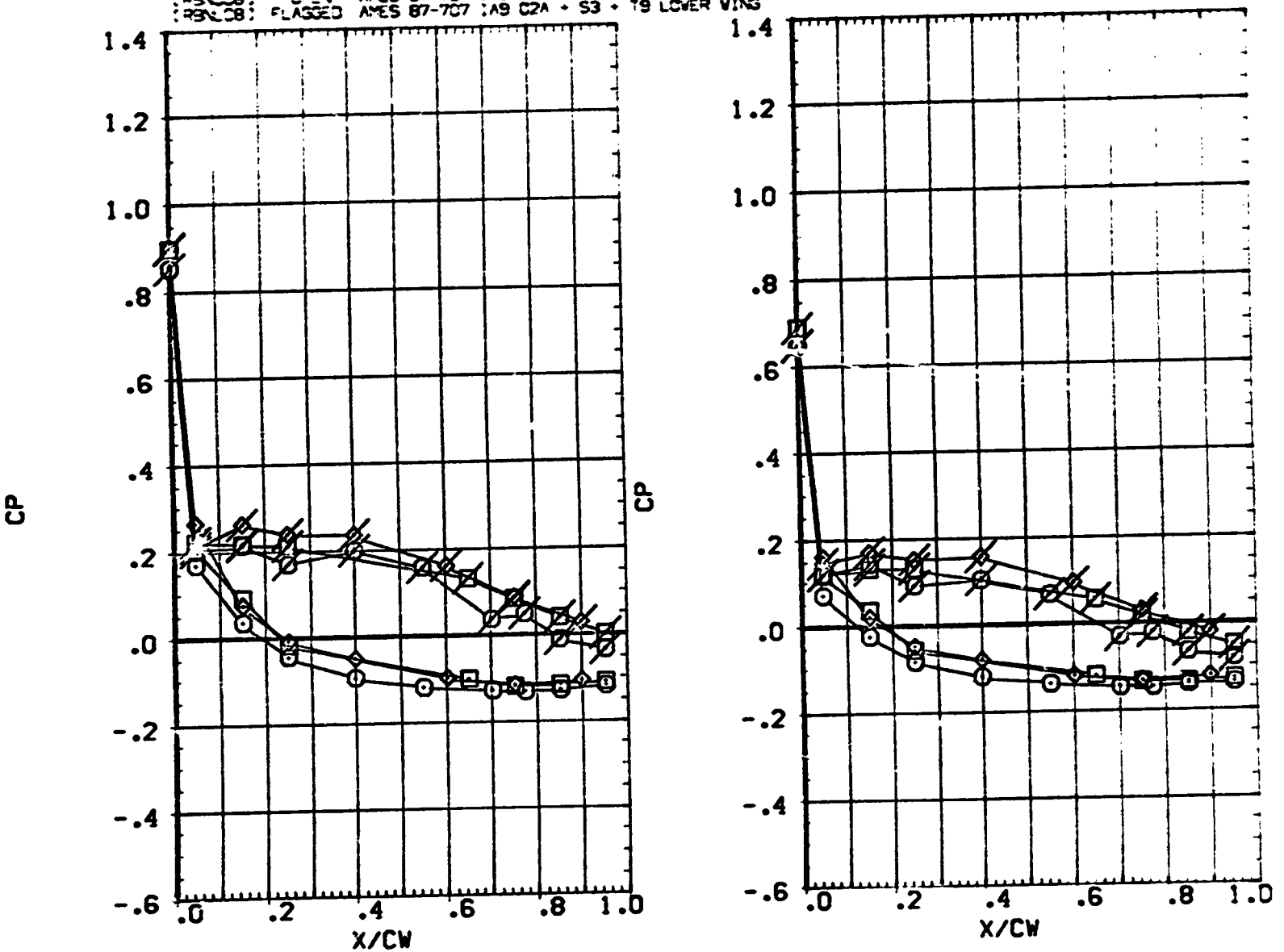
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B/2	BETA	MACH
○	.673	-4.260	2.999
□	.780	2.210	
◇	.887		

PARAMETRIC VALUES

ALPHAT	4.000	SPOILR	.500
RUDDER	.000	ELEVON	.000
FLAPLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
PSL_28	OPEN	AMES 87-707 :A9 C2A + S3 + T9 UPPER WING
PSL_28	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 LOWER WING



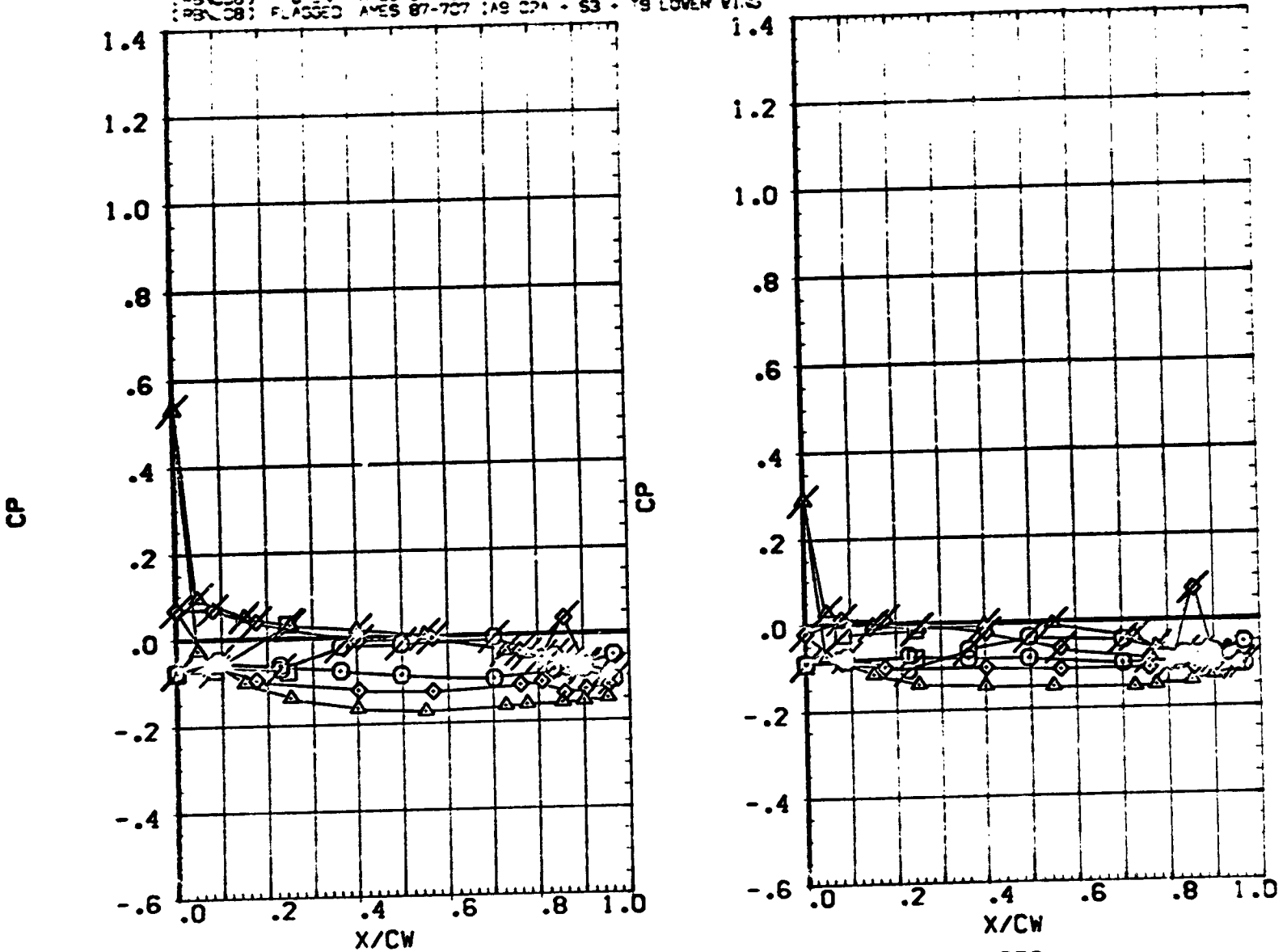
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	M/BW	BETA	MACH
○	.299	4.370	2.999
□	.364	8.700	
◇	.477		
△	.534		

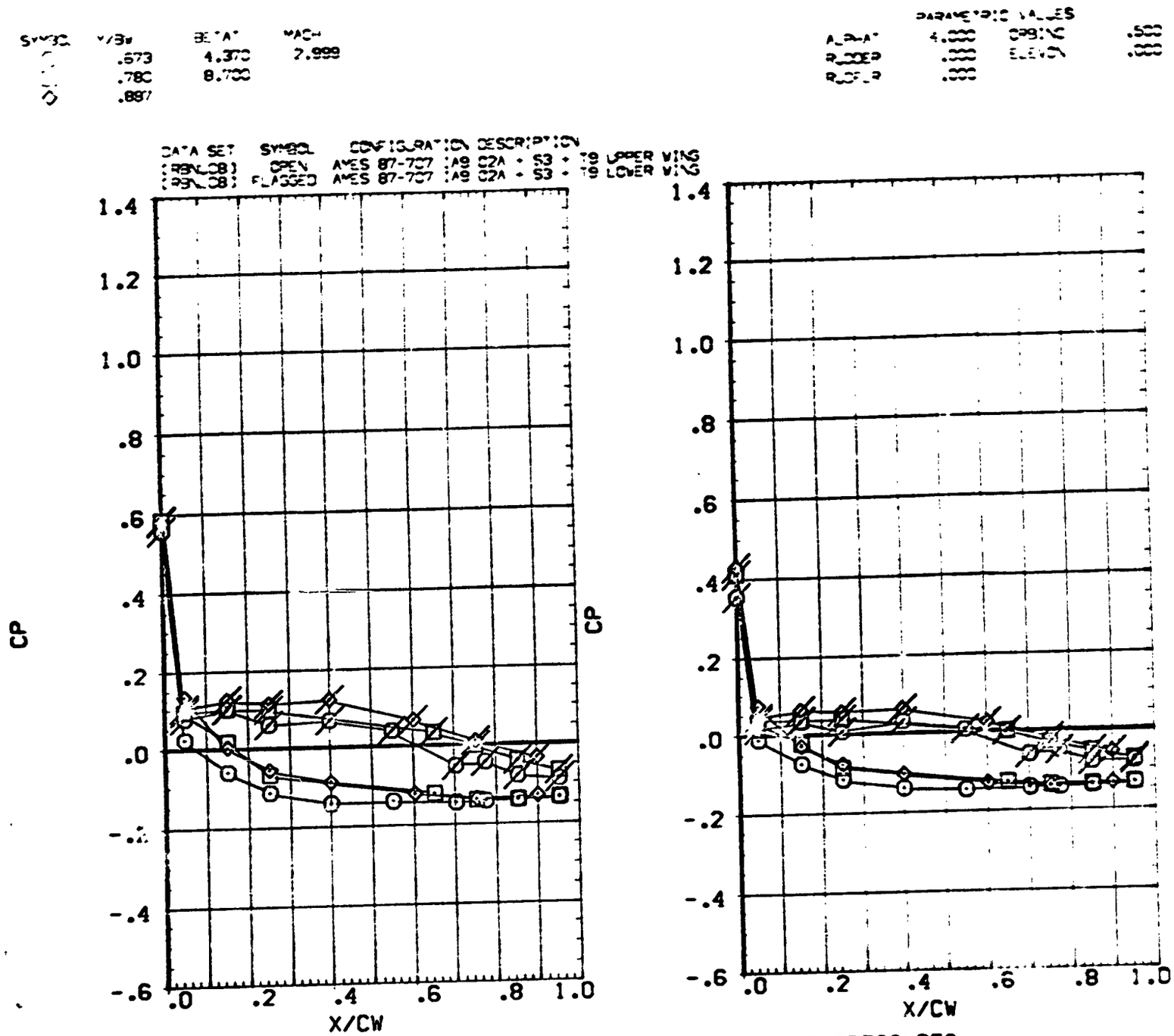
PARAMETRIC VALUES

ALPHAT	4.000	DBI:NC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
PBL 08	OPEN	AMES 87-707 :A9 C2A + S3 + T9 UPPER WING
PBL 08	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



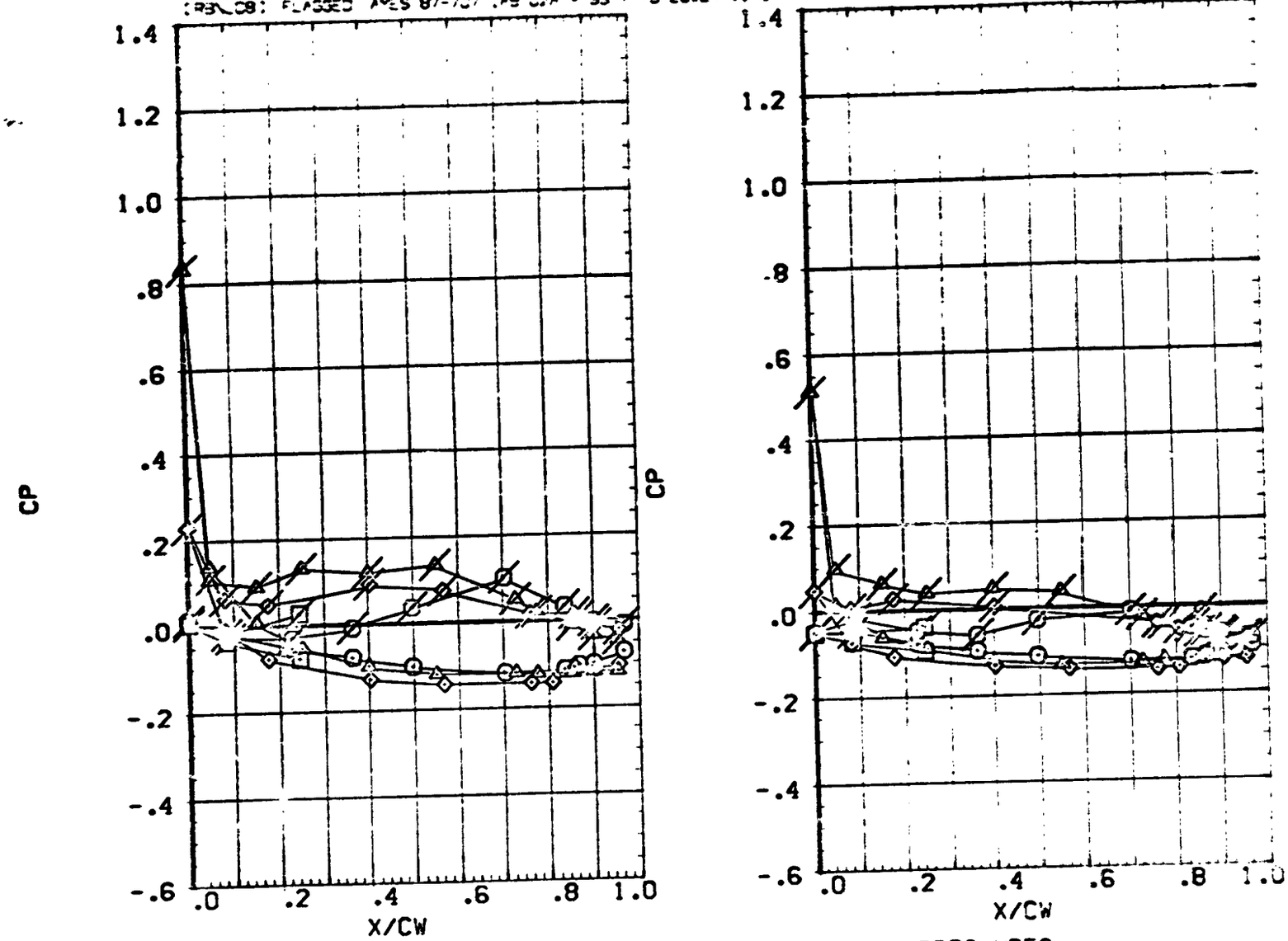
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B/2	BETA	MACH
○	.299	-4.330	3.502
□	.364	7.260	
◇	.477		
△	.534		

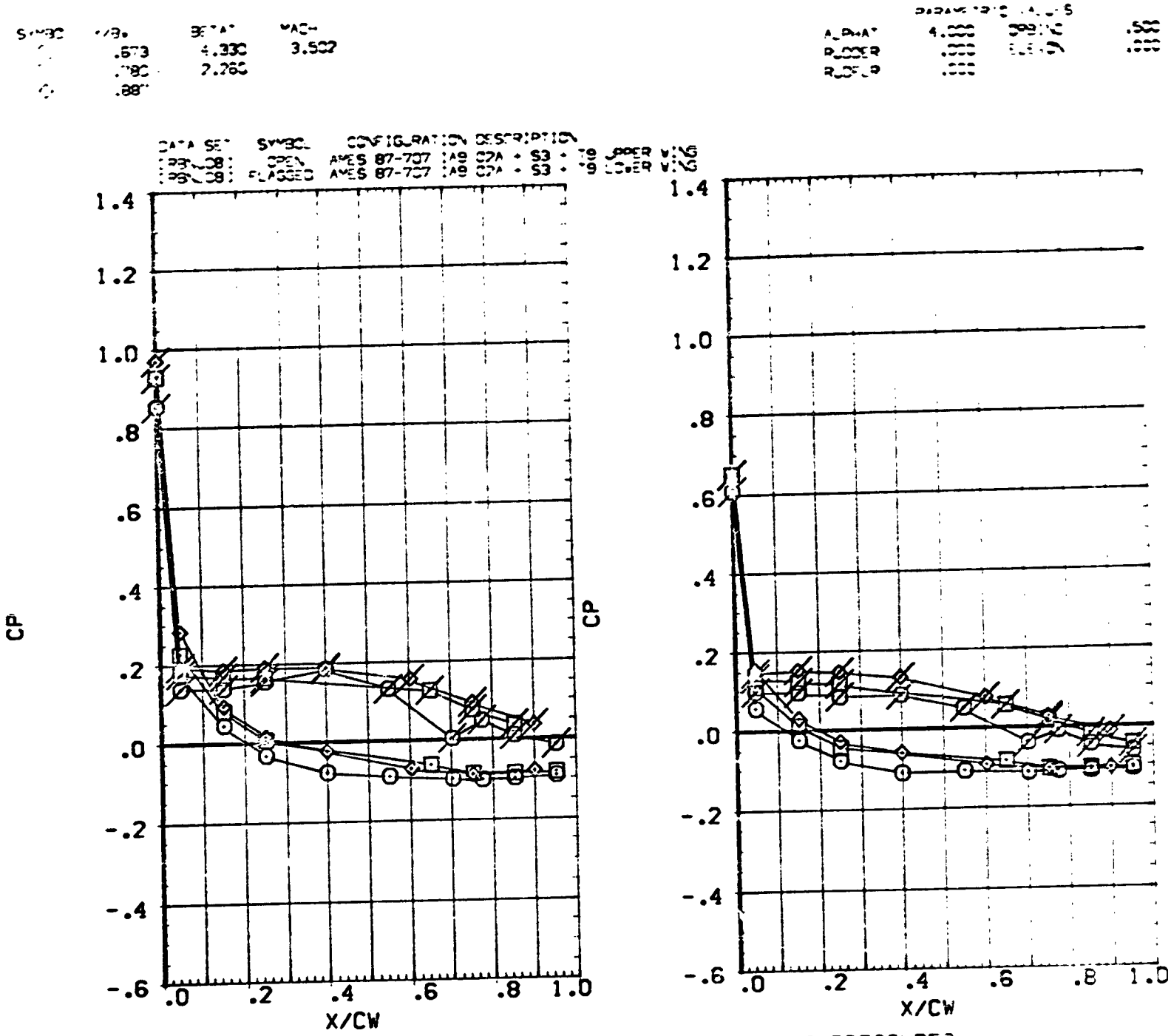
PARAMETRIC VALUES

ALPHA	4.000	DOWNC	.500
RUDDER	.000	ELEVON	.000
AILERON	.000		

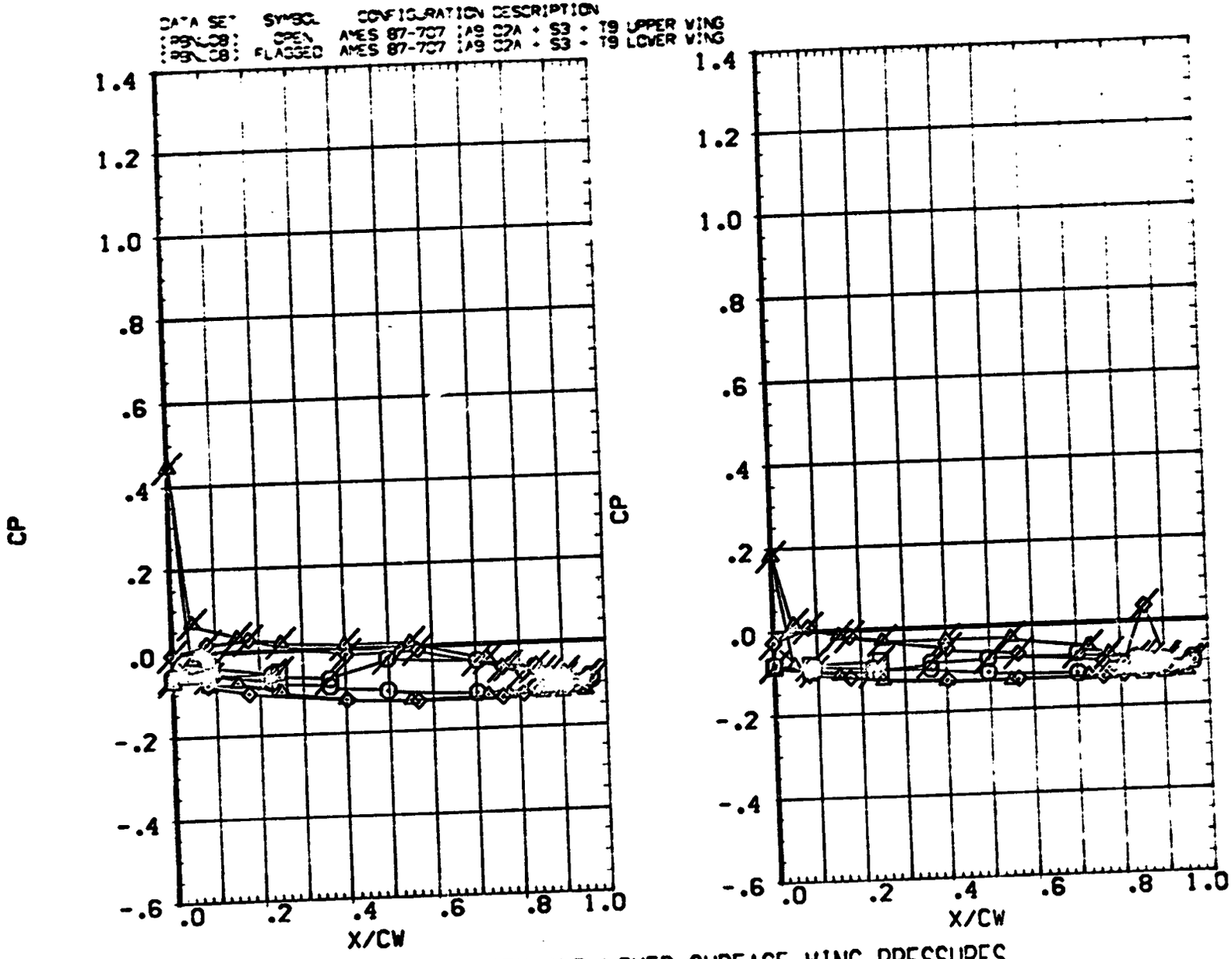
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
R3_08	OPEN	AMES 87-707 :A9 CDA + S3 + T9 LOWER WING
R3_08	FLAGGED	AMES 87-707 :A9 CDA + S3 + T9 LOWER WING



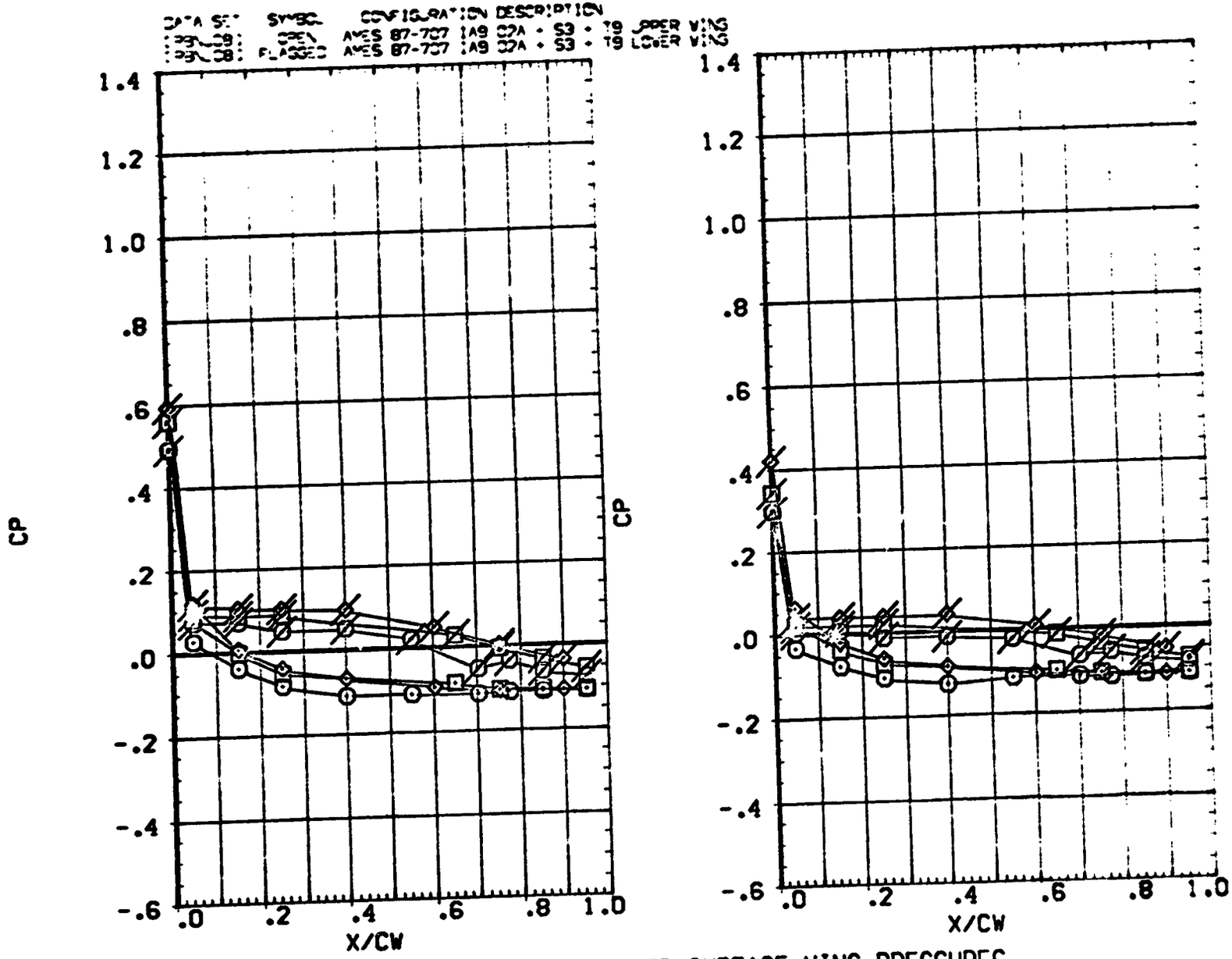
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

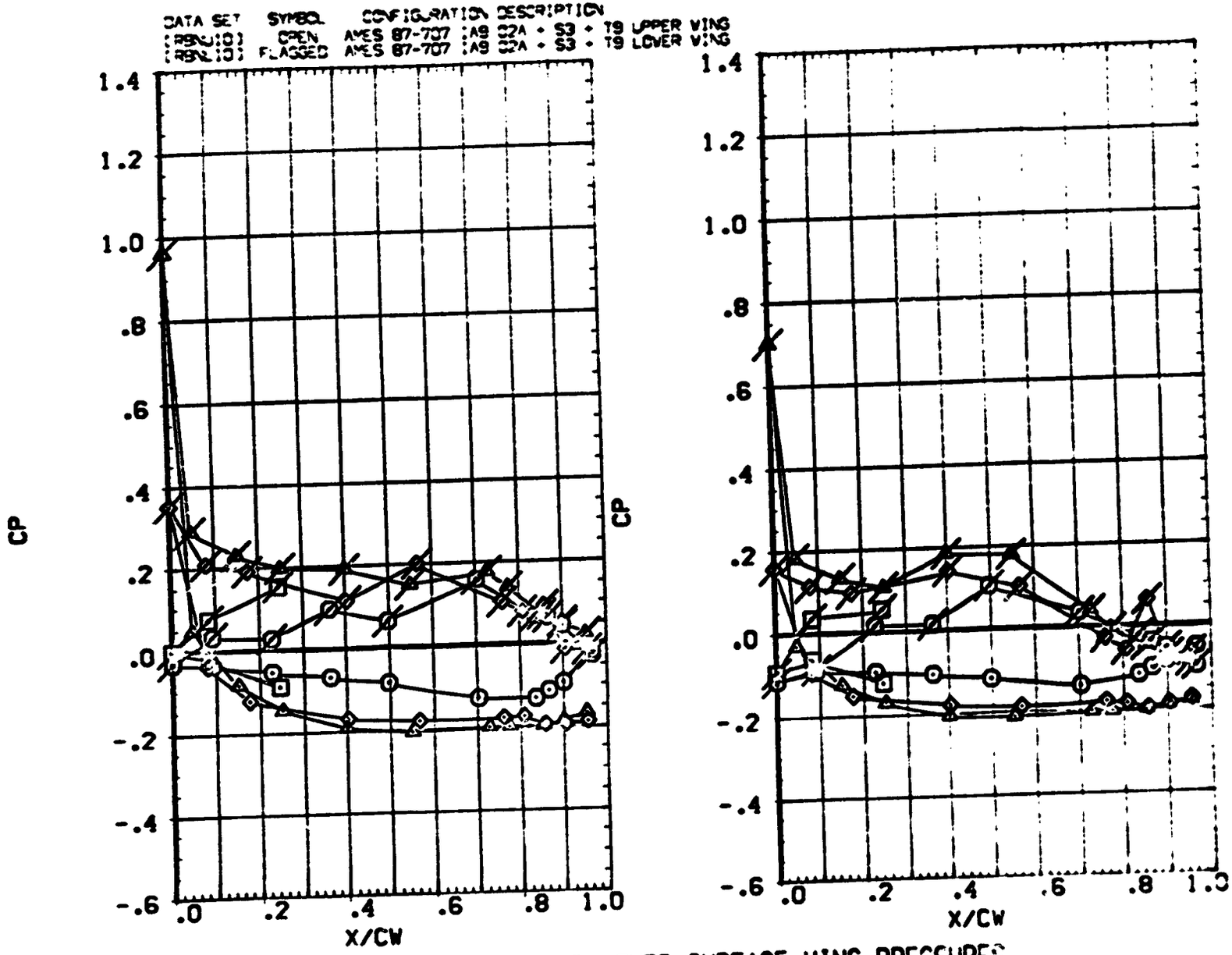


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	V/3%	BETA	MACH
	.299	-4.170	2.498
	.364	2.180	
	.427		
	.534		

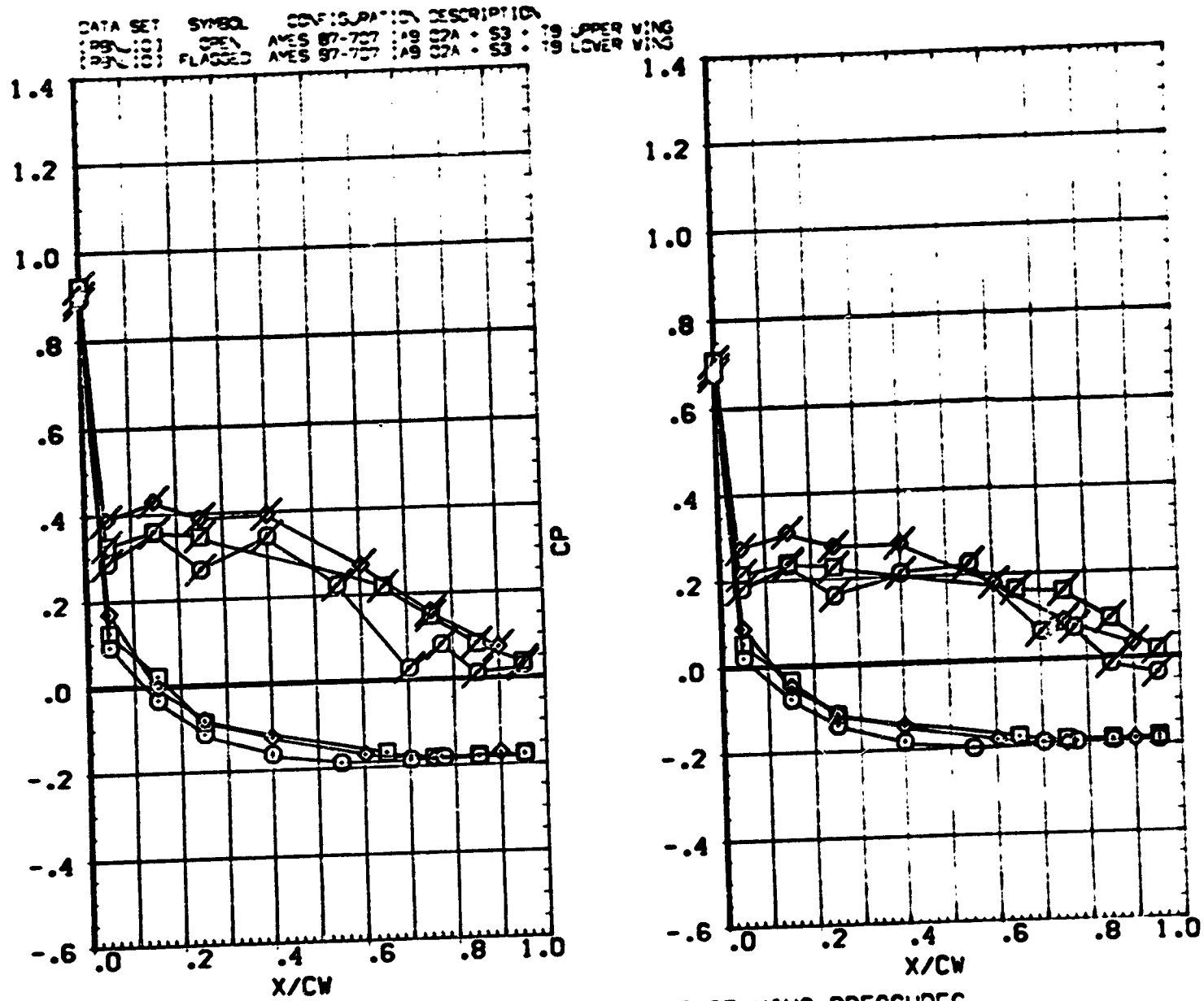
ALPHA			
RUDDER			
AILERON			

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RUN 10)	OPEN	AMES 67-707 :A9 C2A + S3 + T9 UPPER WING
(RUN 10)	FLAGGED	AMES 67-707 :A9 C2A + S3 + T9 LOWER WING

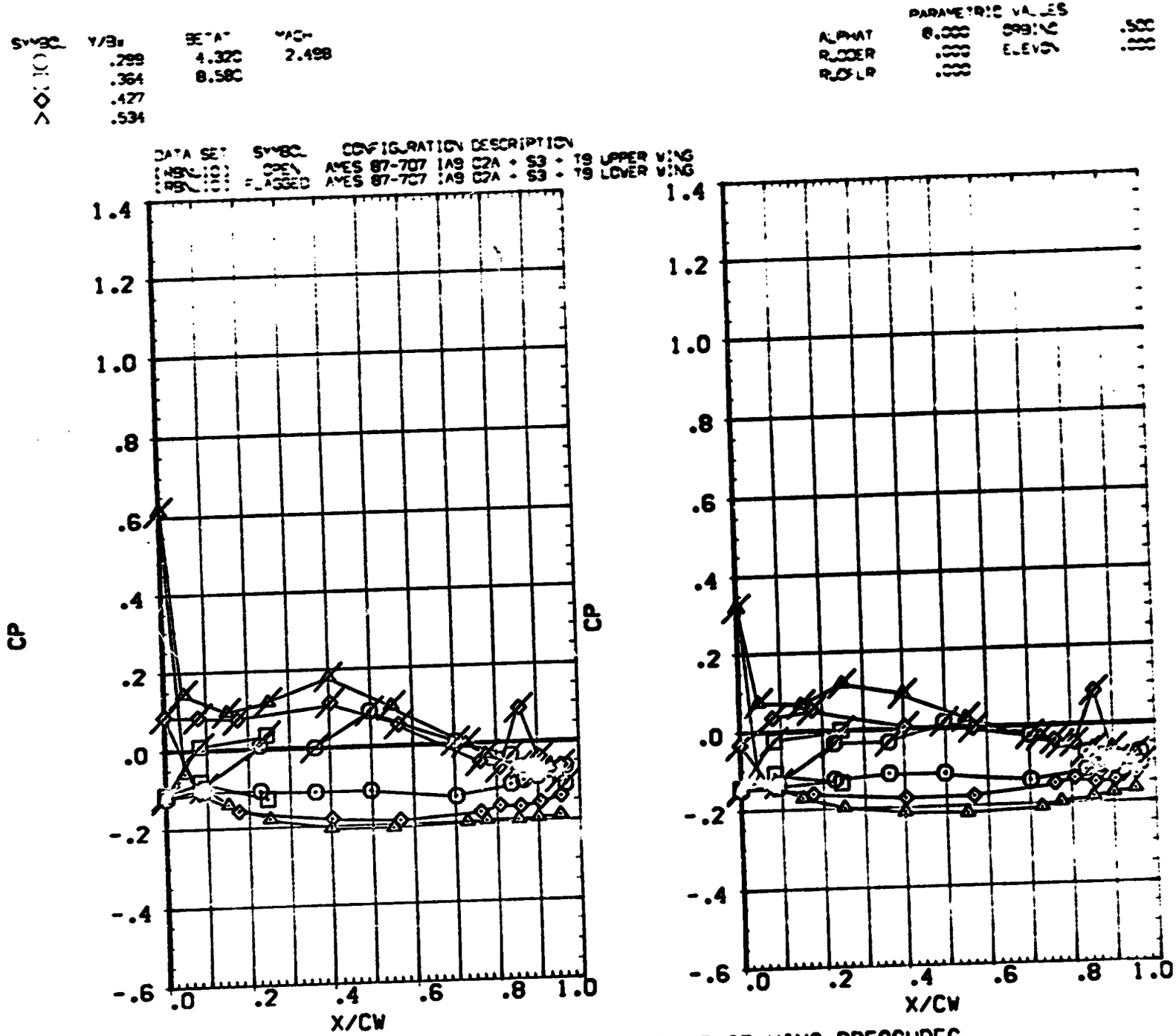


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

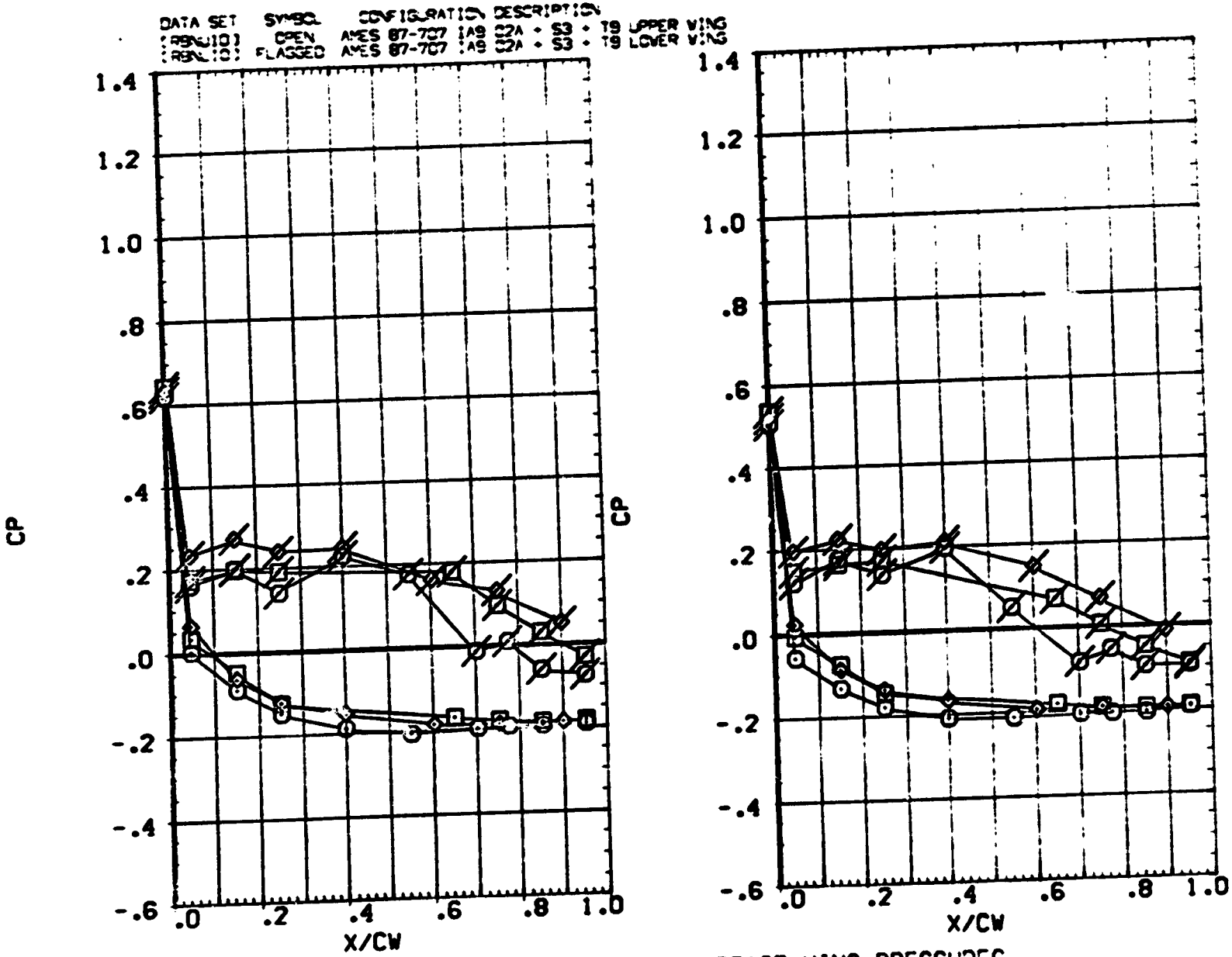


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



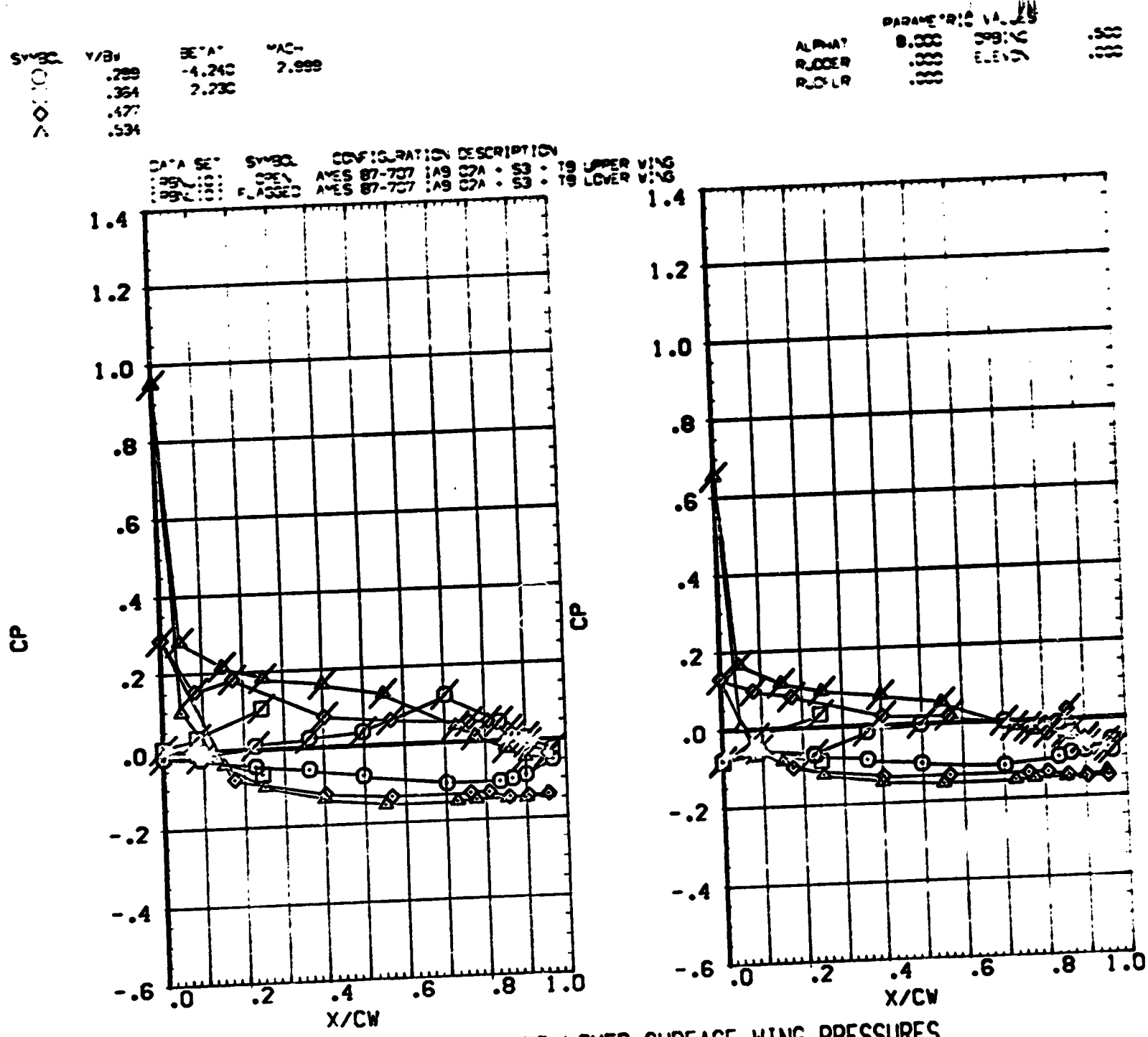
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

◇ .887

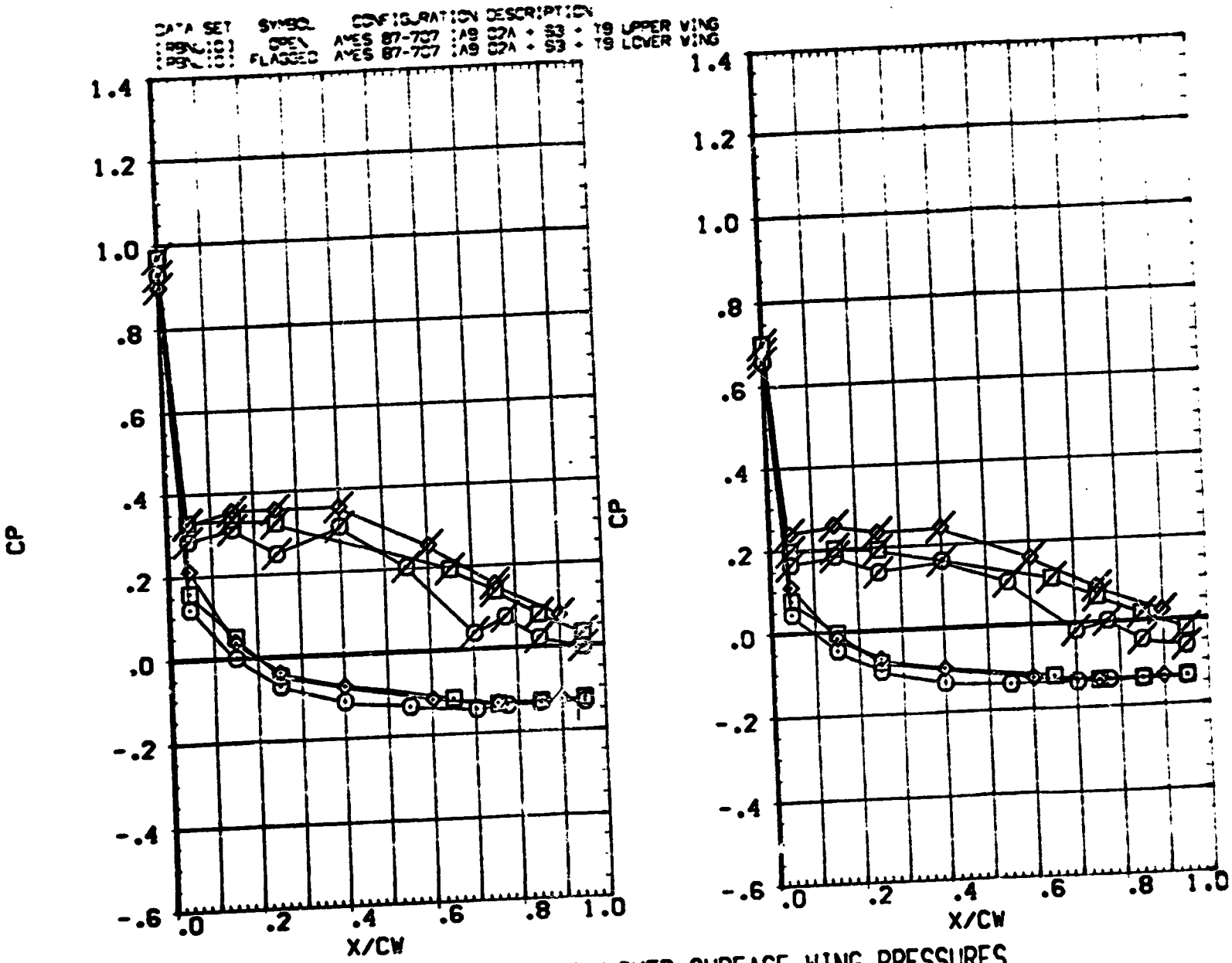


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

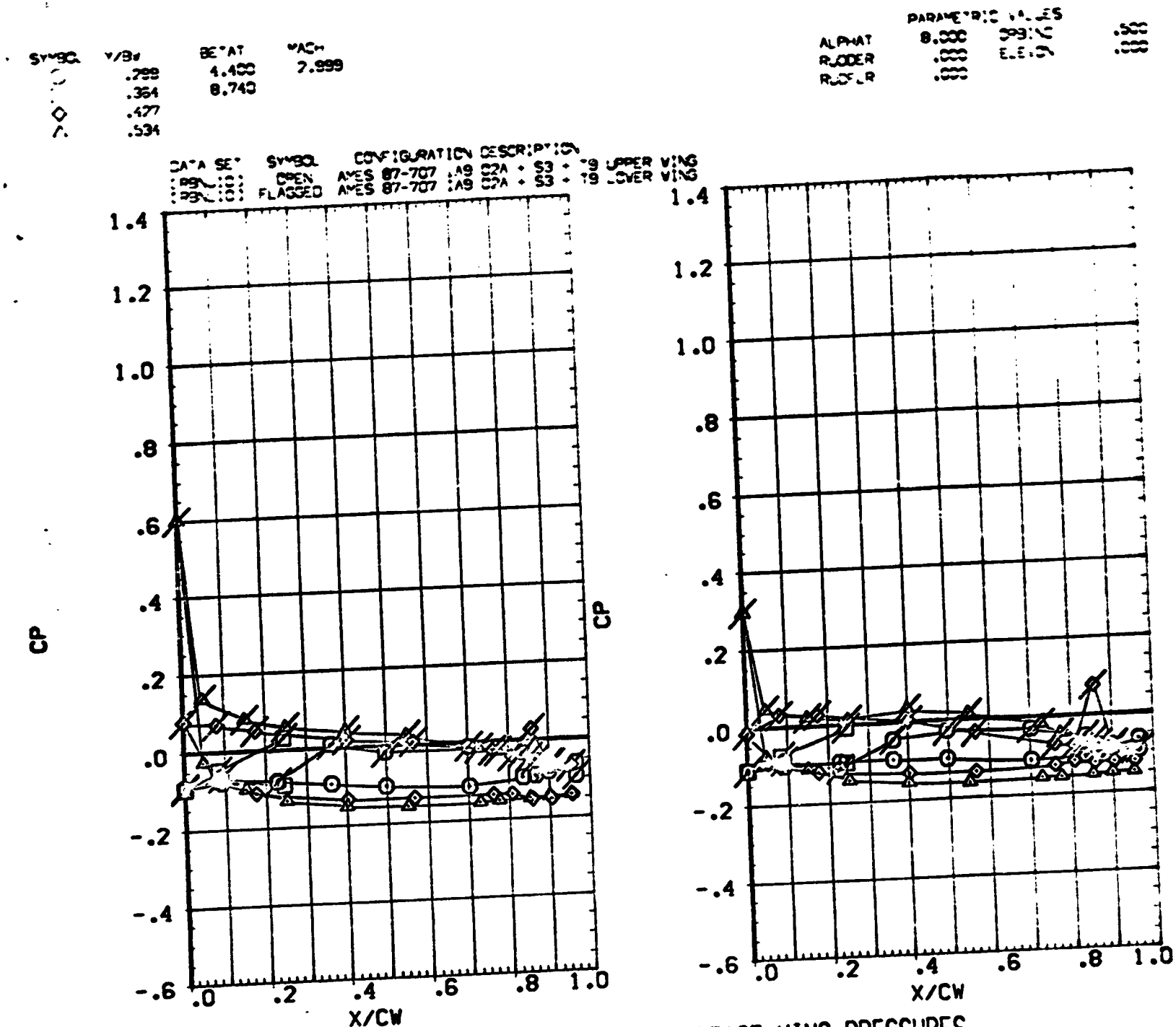
PAGE 808



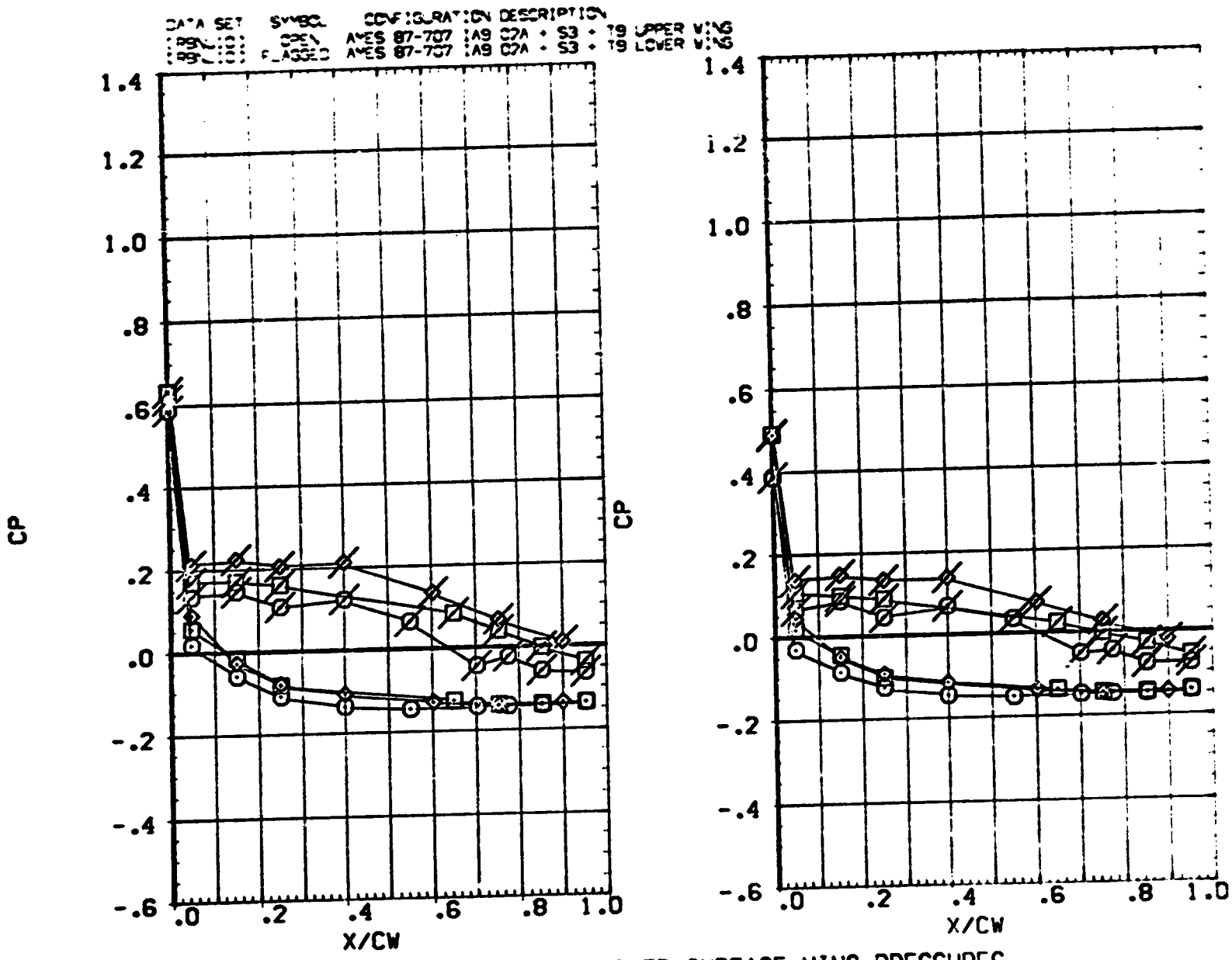
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



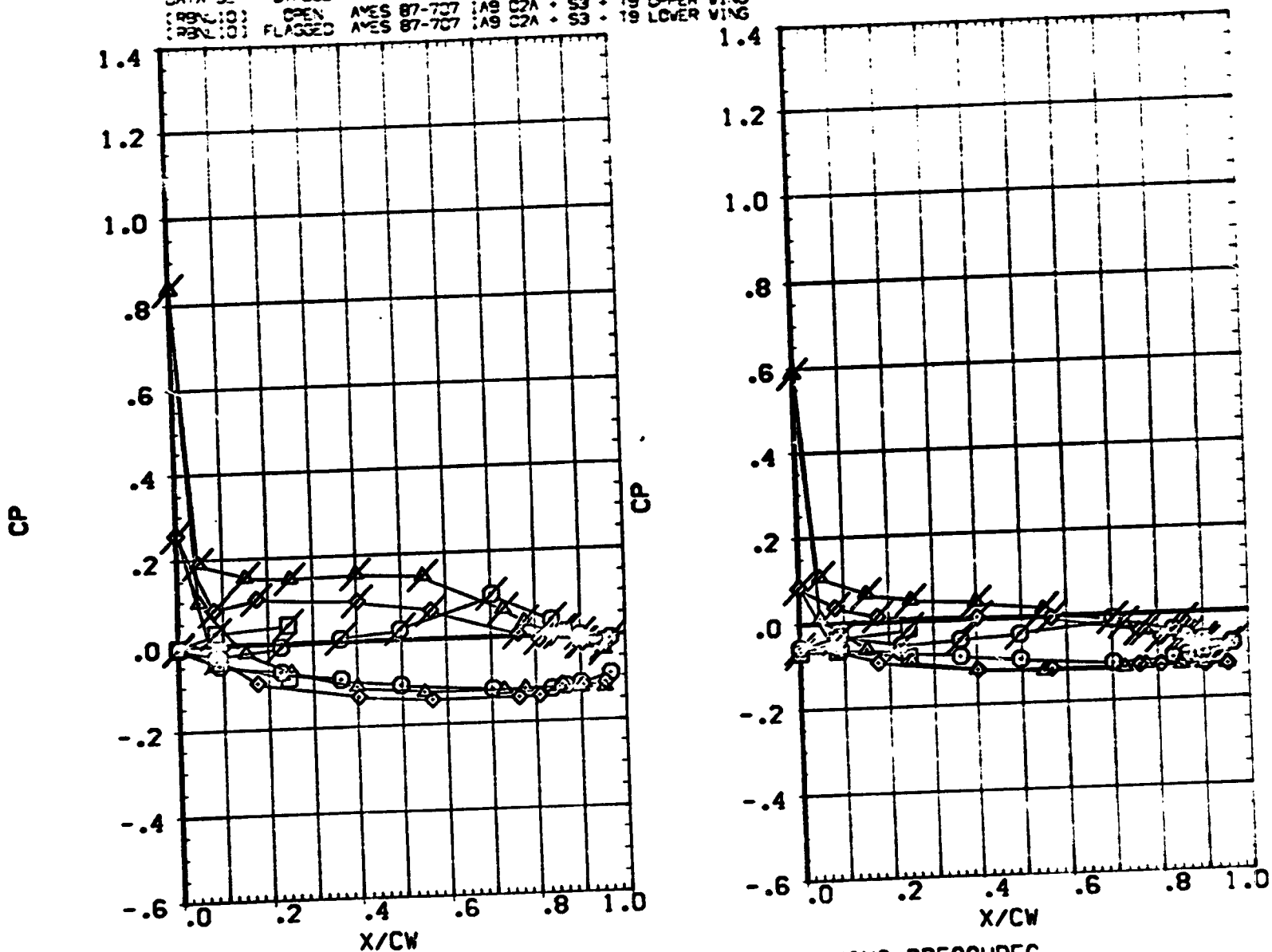
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/B	BETAT	MACH
○	.299	-4.310	3.502
◇	.364	2.260	
△	.427		
	.534		

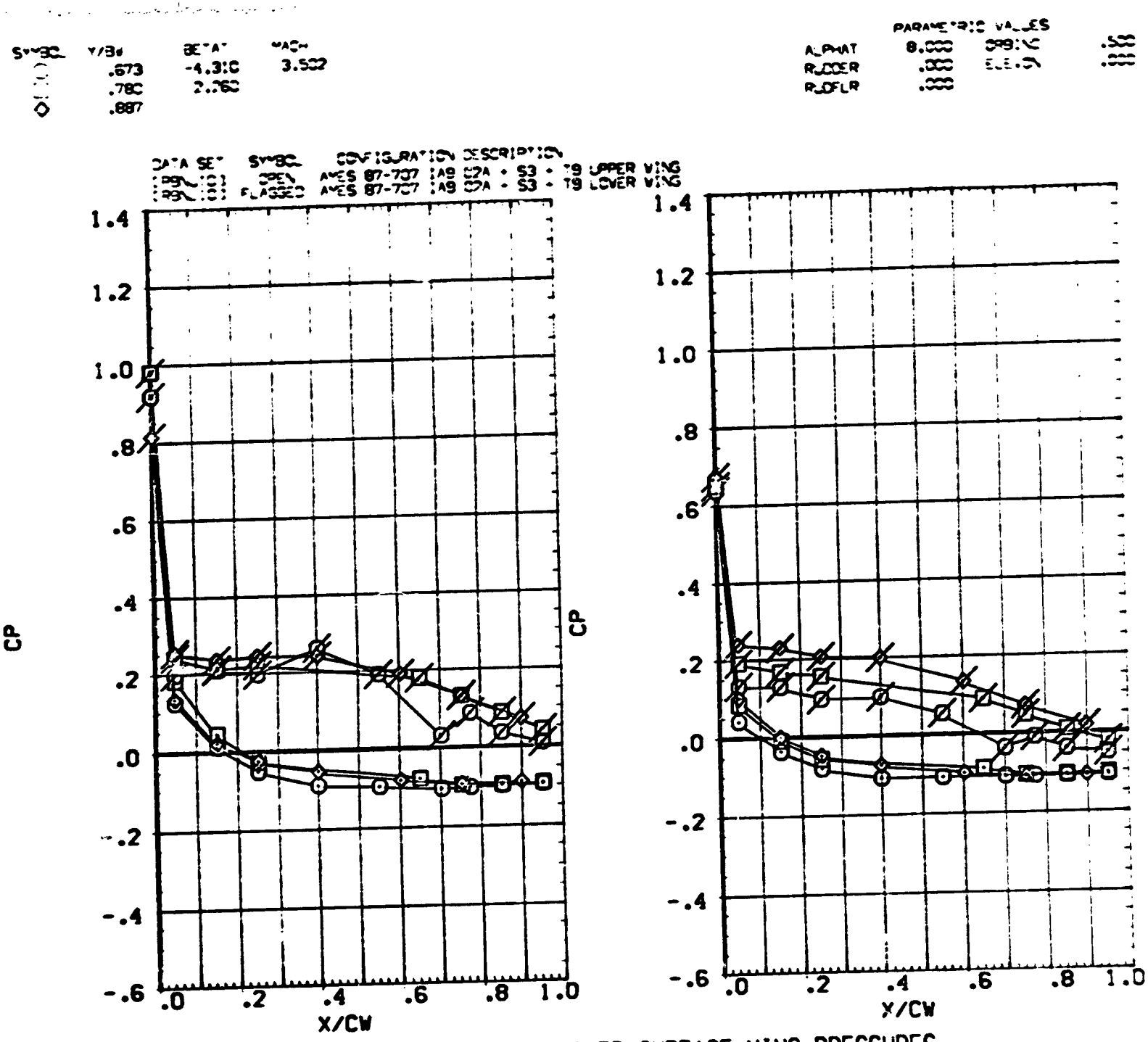
PARAMETRIC VALUES

ALPHAT	8.000	DBDYNC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

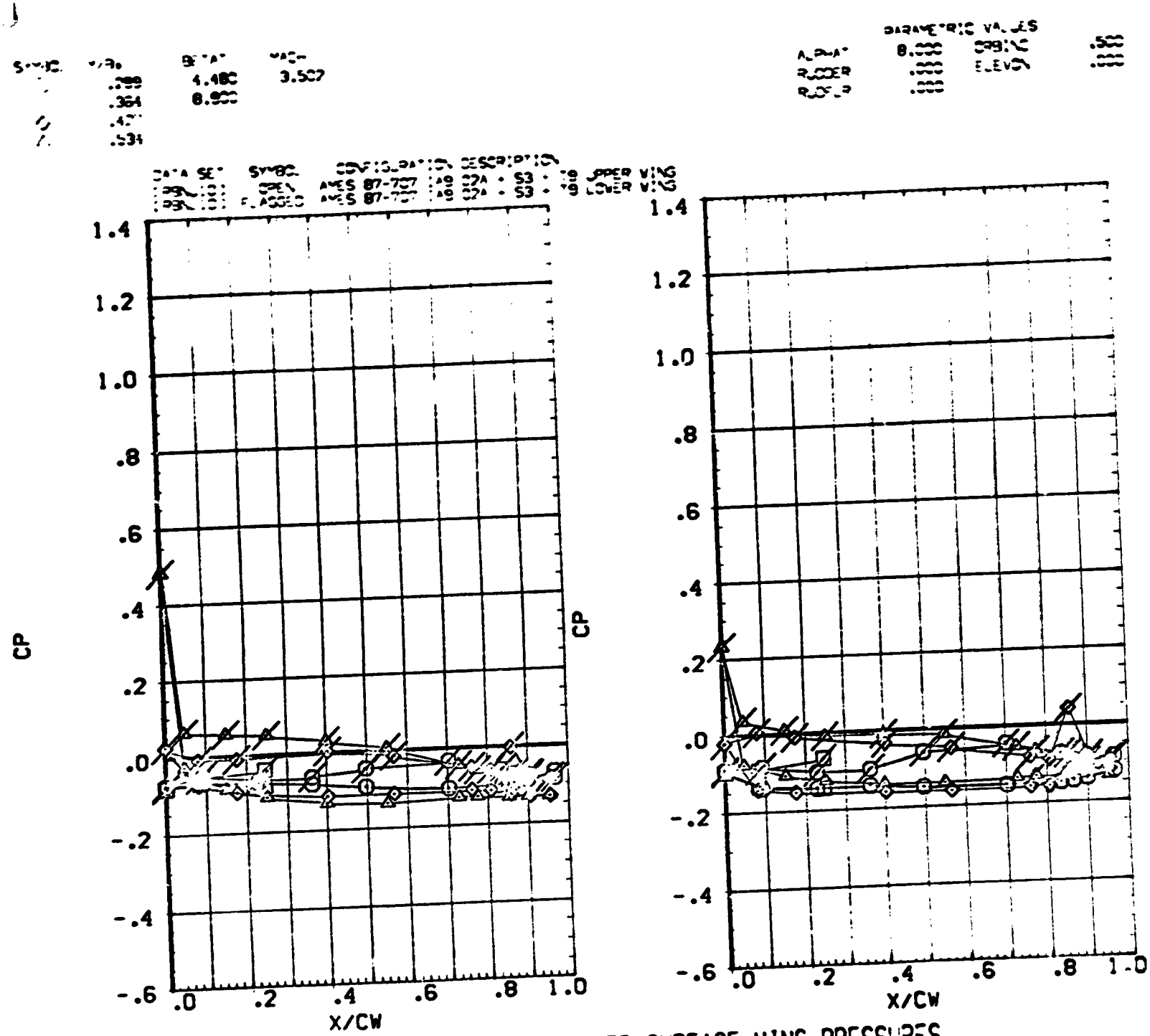
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNL:0)	OPEN	AMES 87-707 :A9 D2A + S3 + T9 UPPER WING
(RBNL:0)	FLAGGED	AMES 87-707 :A9 D2A + S3 + T9 LOWER WING



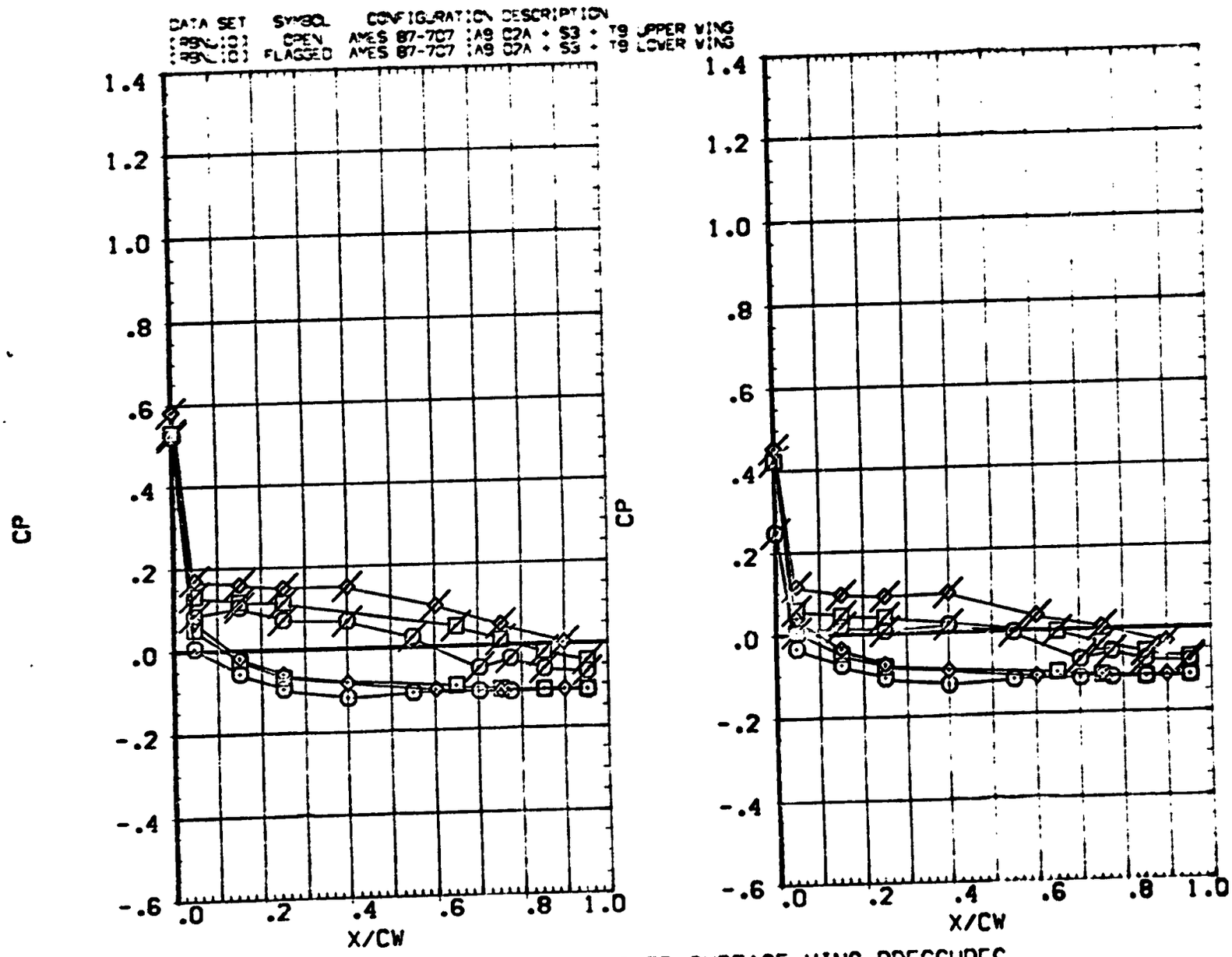
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



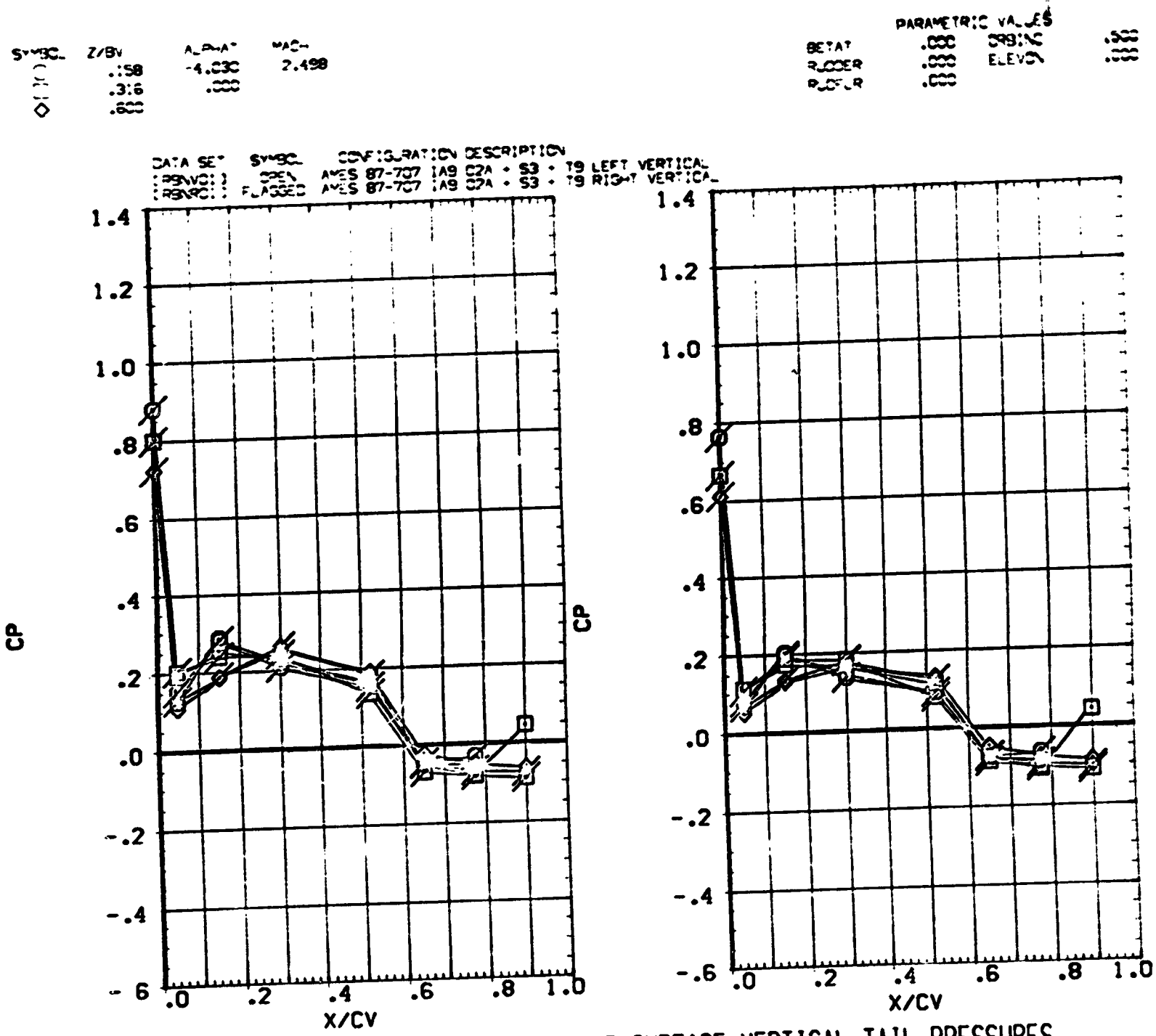
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



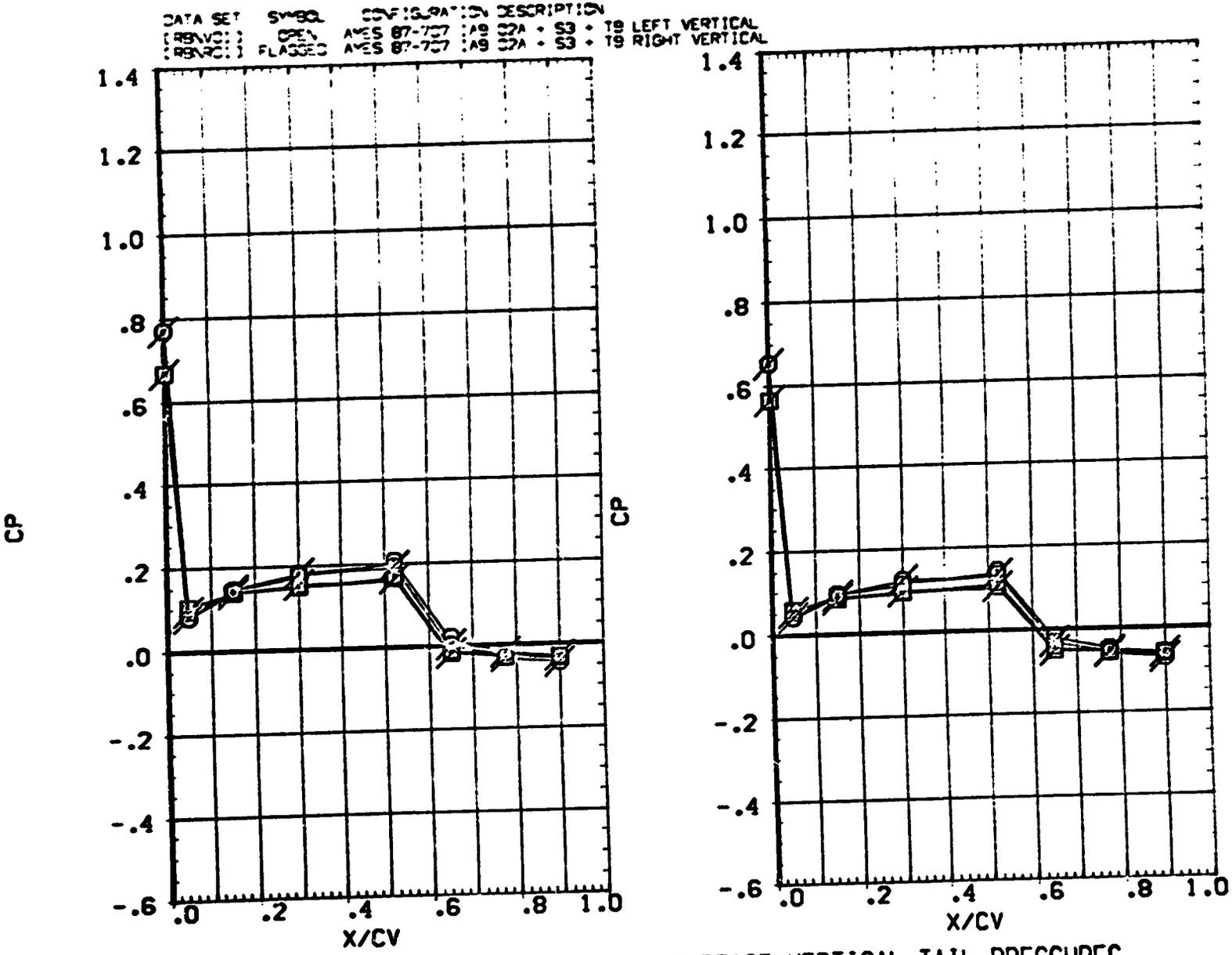
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



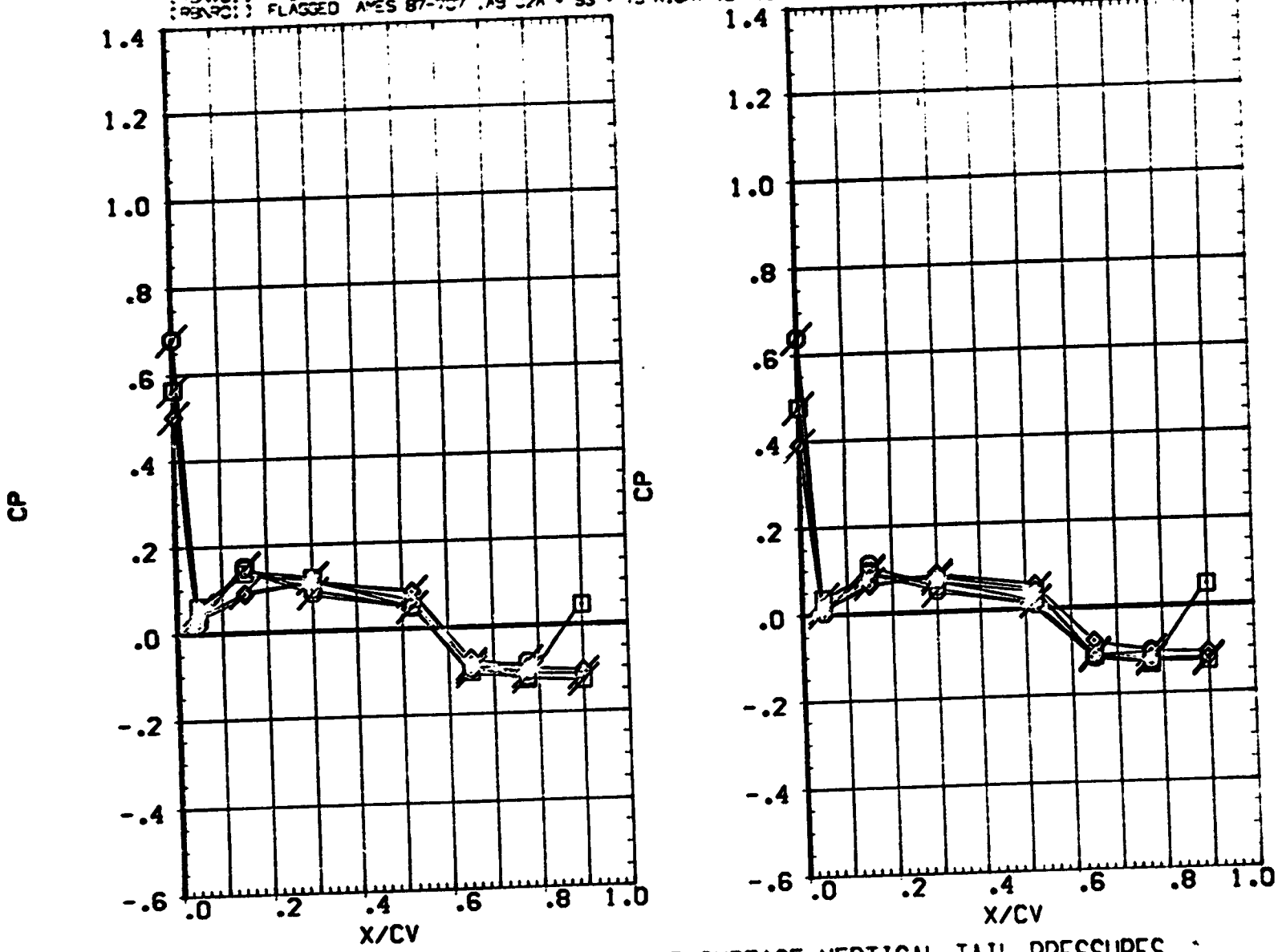
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	ALPHA	MACH
○	.158	3.900	2.498
□	.316	8.010	
◇	.500		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLP	.000		

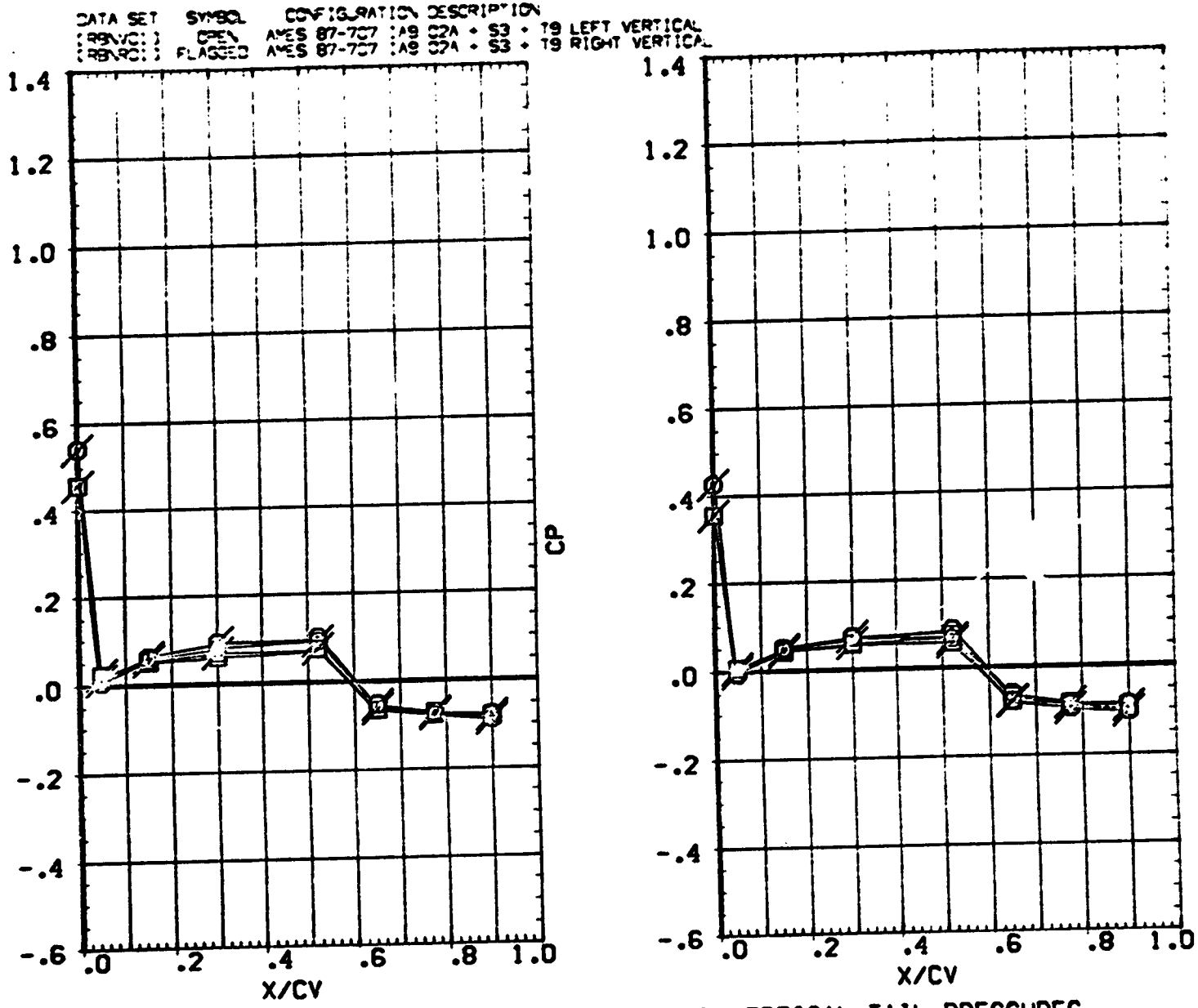
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNVOI)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(RBNPOI)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	ALPHAT	MACH
	.840	3.900	2.498
	.925	8.010	

BETA	.000	ORIENC	.000
RUDDER	.000	ELEVON	.000
RUDLR	.000		



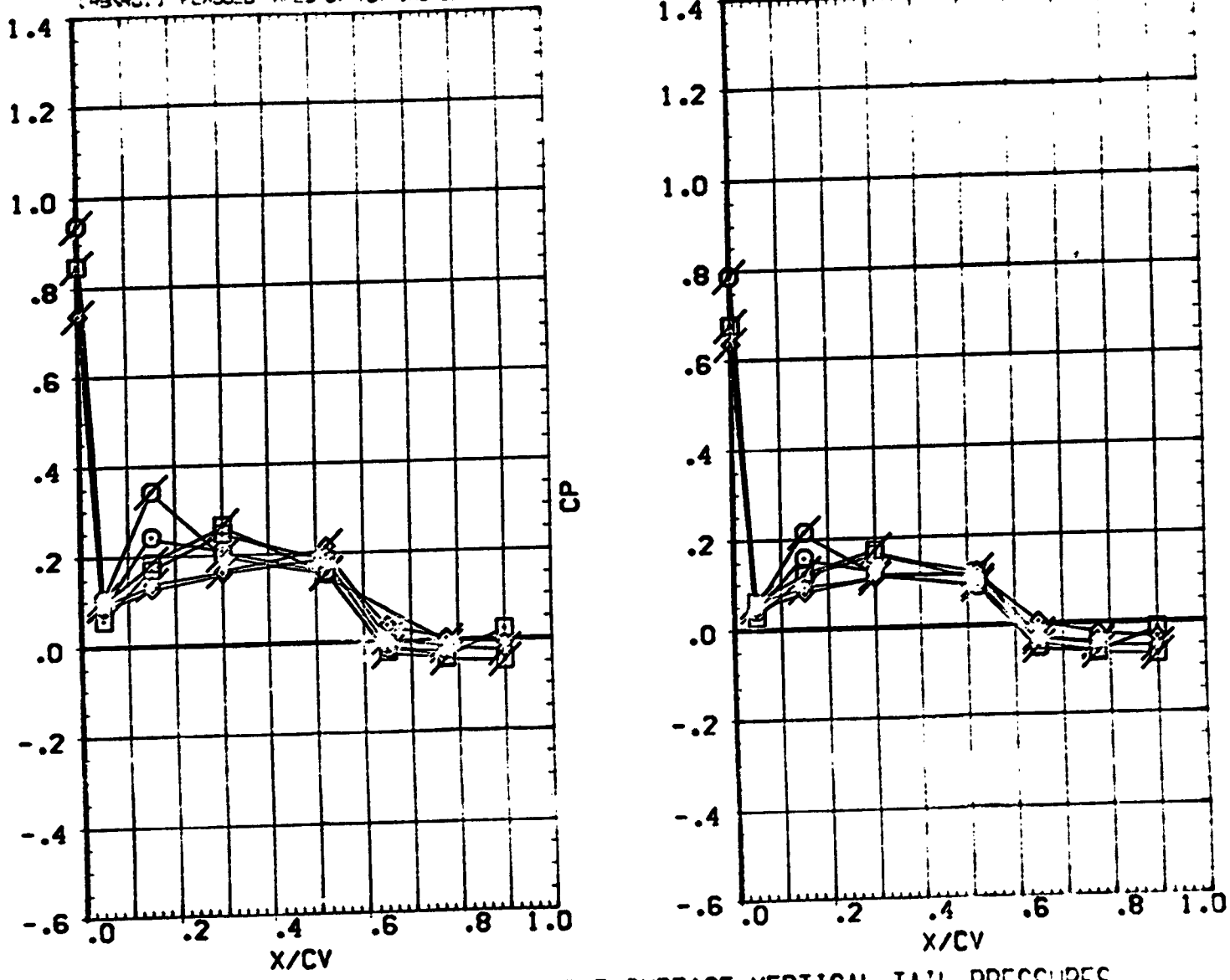
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	X/BV	ALPHA	MACH
△	.158	4.070	2.999
○	.316	-.010	
◇	.600		

PARAMETRIC VALUES

BETA	.000	SPEING	.500
RUDDER	.000	ELEVON	.000
RUDDLR	.000		

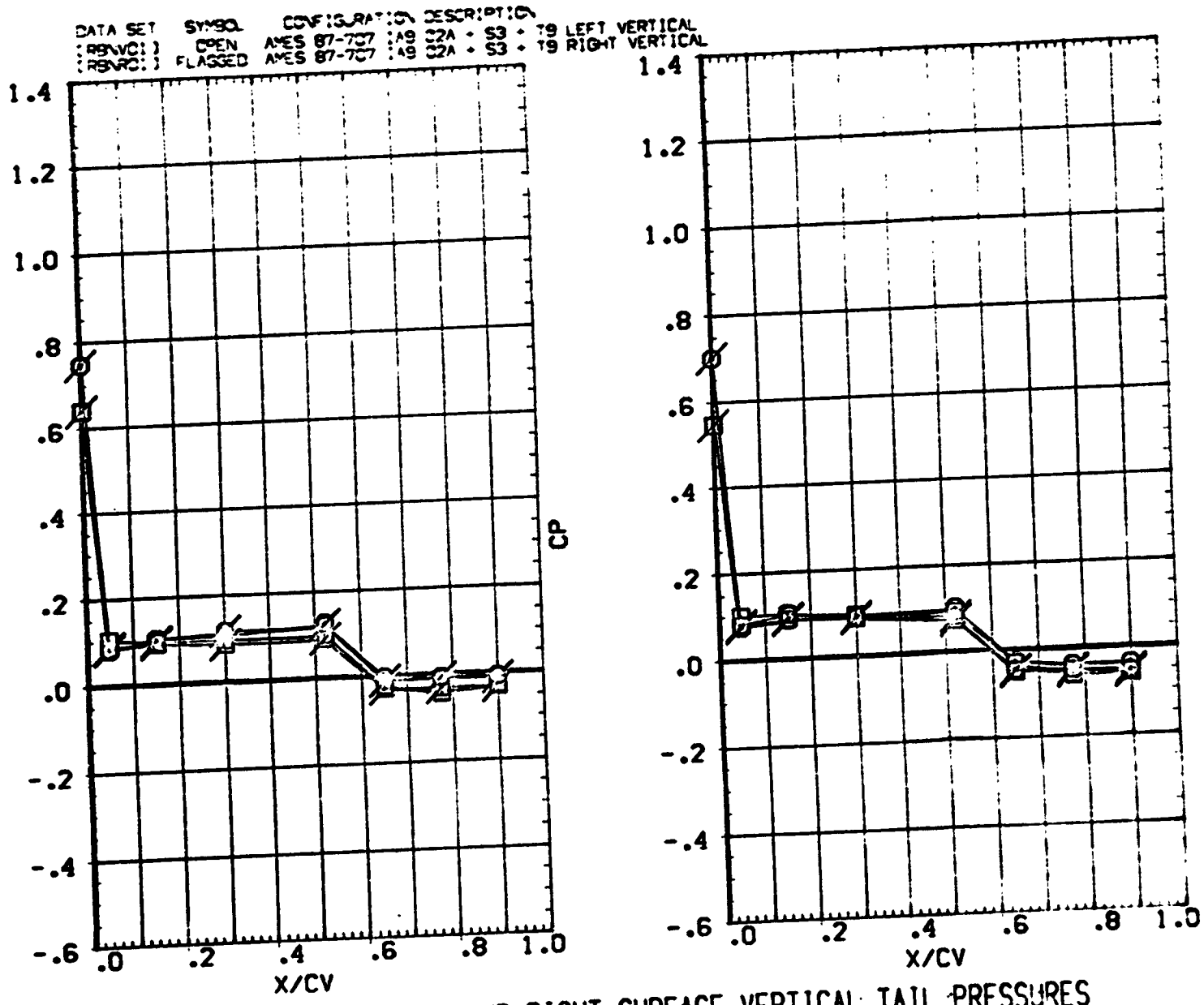
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
RBNVC1	OPEN	AMES 87-707 :A9 D2A + S3 + T9 LEFT VERTICAL
RBNRC1	FLAGGED	AMES 87-707 :A9 D2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

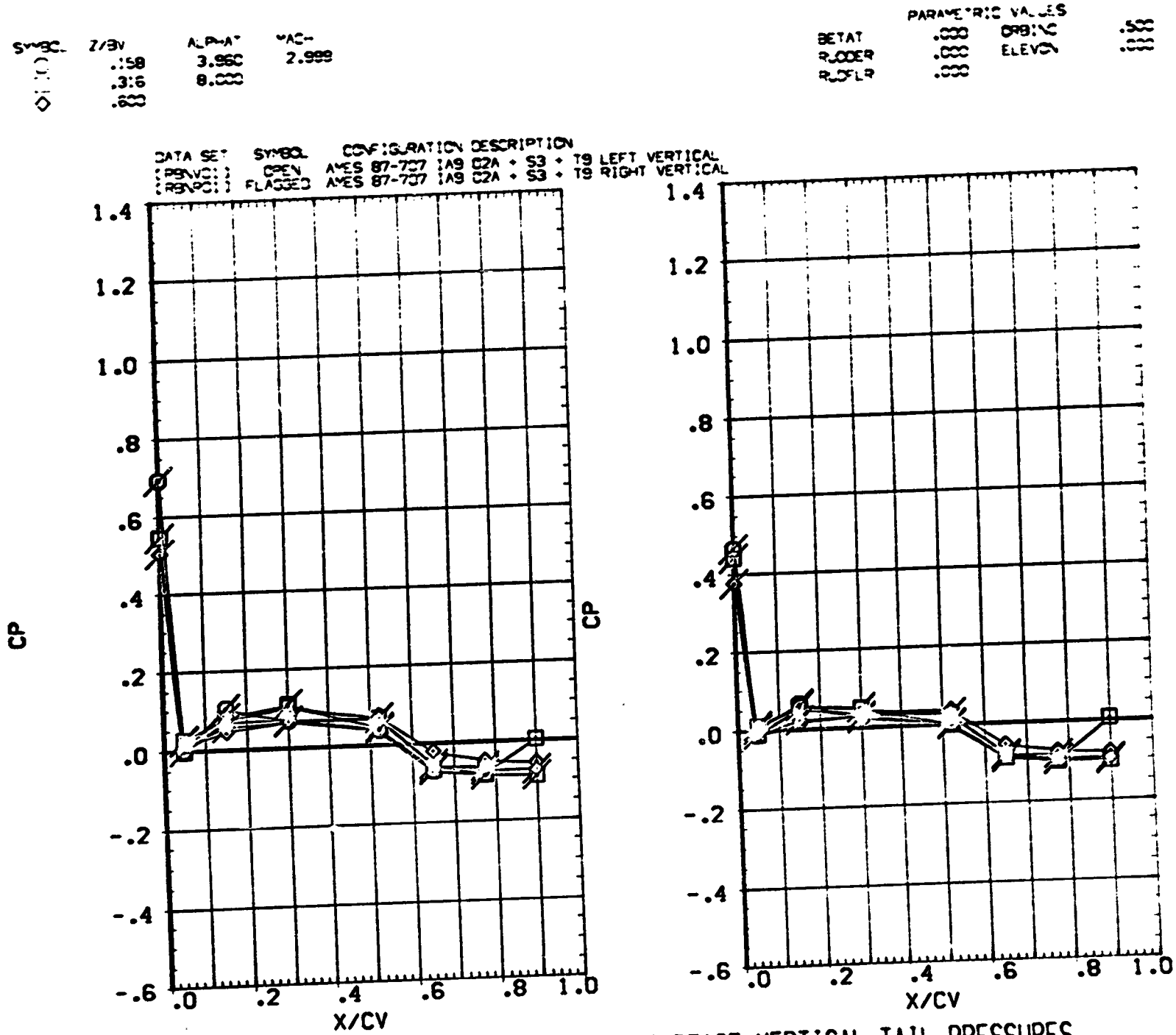
SYMBOL	Z/B	ALPHAT	MACH
	.840	-4.070	2.999
	.925	-.010	

RUDDER	.000	ELEVON	.000
RUDDER	.000		



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

FIG. 822

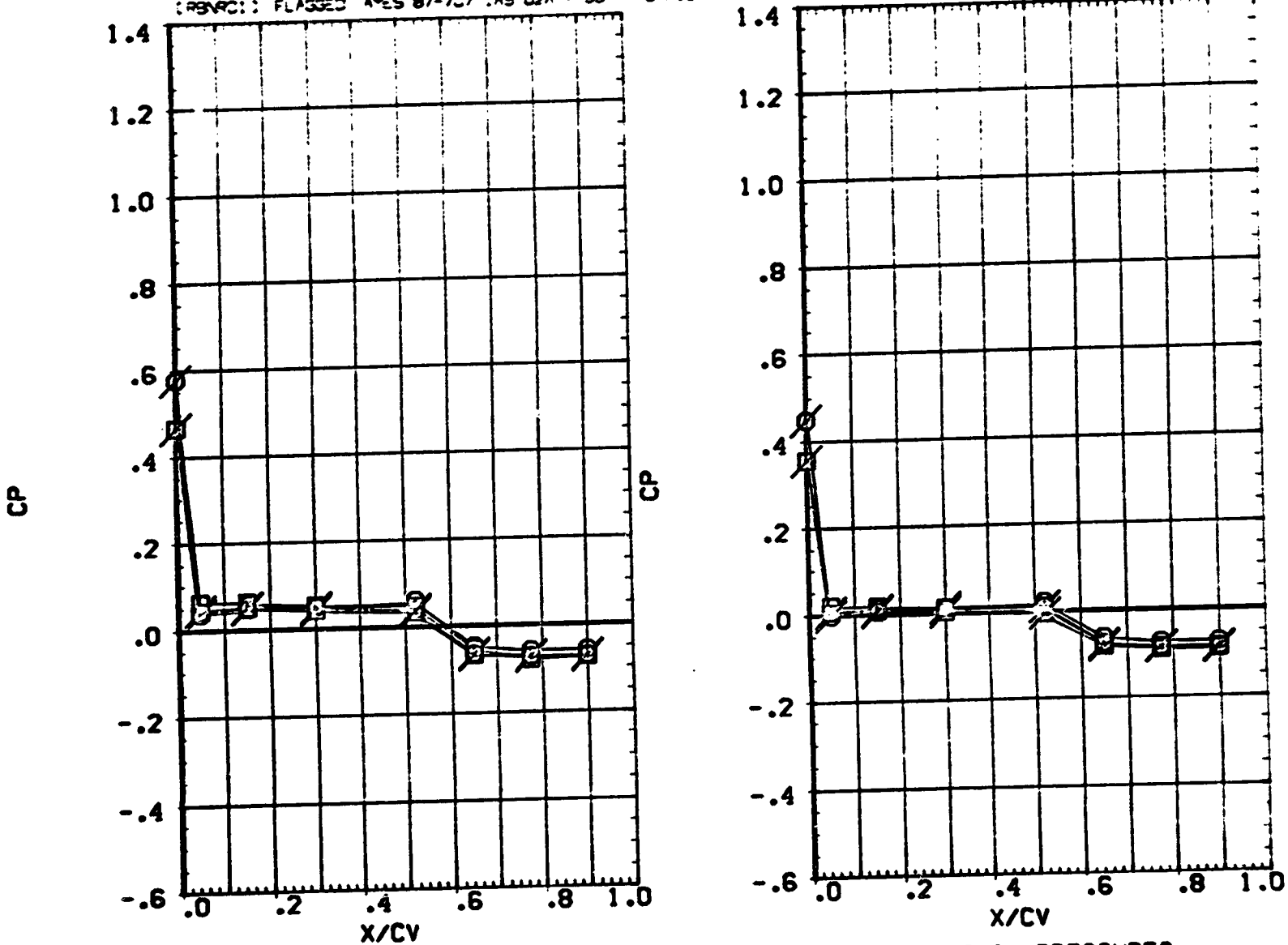


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	ALPHA	MACH
○	.840	3.960	2.999
□	.975	8.000	

BETAT	.000	SPOINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
RBNVC1	OPEN	AMES 87-727 :A9 C2A + S3 + T9 LEFT VERTICAL
RBNVC1	FLAGGED	AMES 87-727 :A9 C2A + S3 + T9 RIGHT VERTICAL



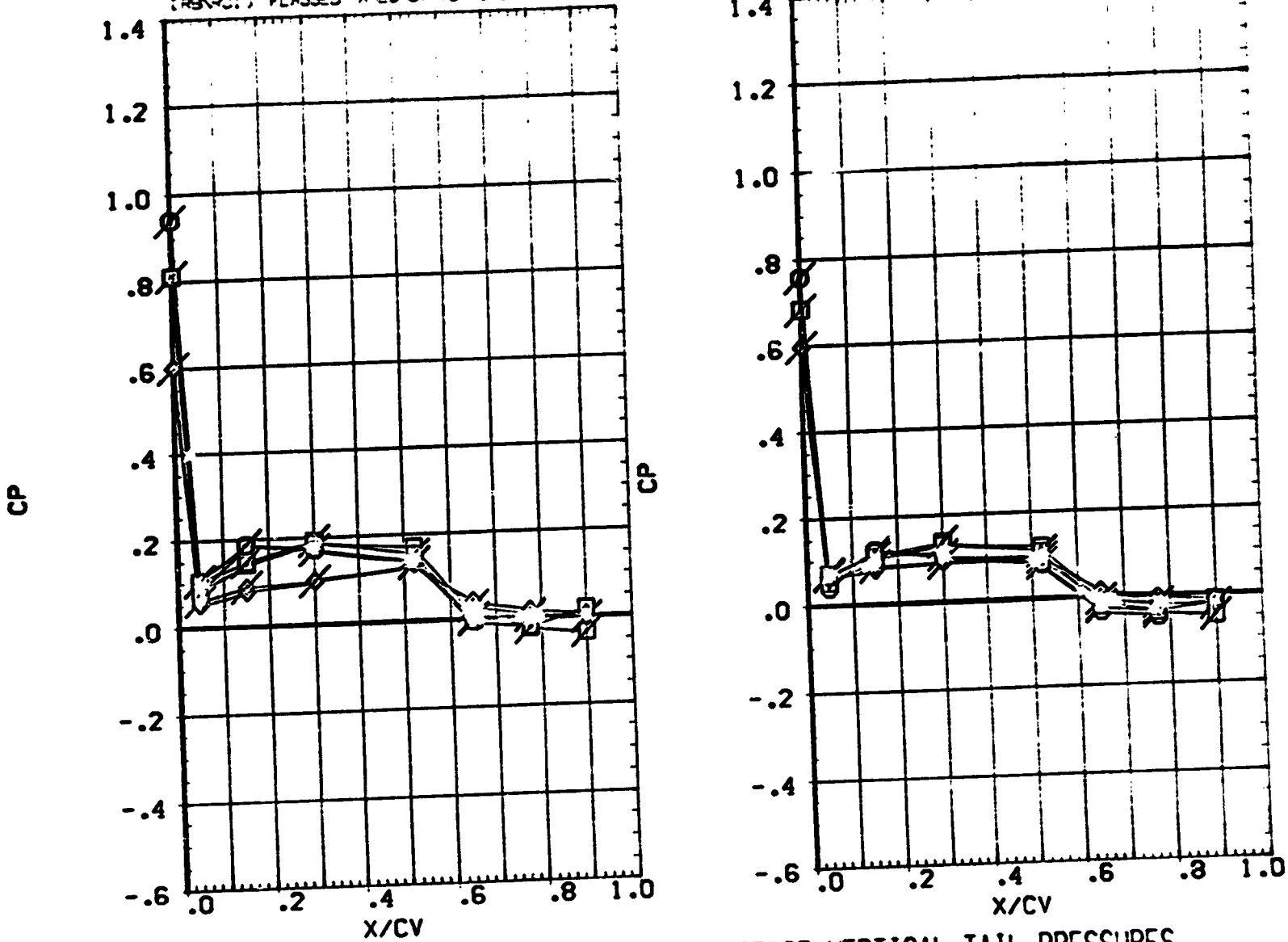
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	ALPHAT	MACH
○	.158	-4.070	3.502
□	.316	-.030	
◇	.600		

PARAMETRIC VALUES

BETAT	.000	SPOILC	.500
RUDDER	.000	ELEVON	.000
FLAP	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
RSNVC	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
RSNRC	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



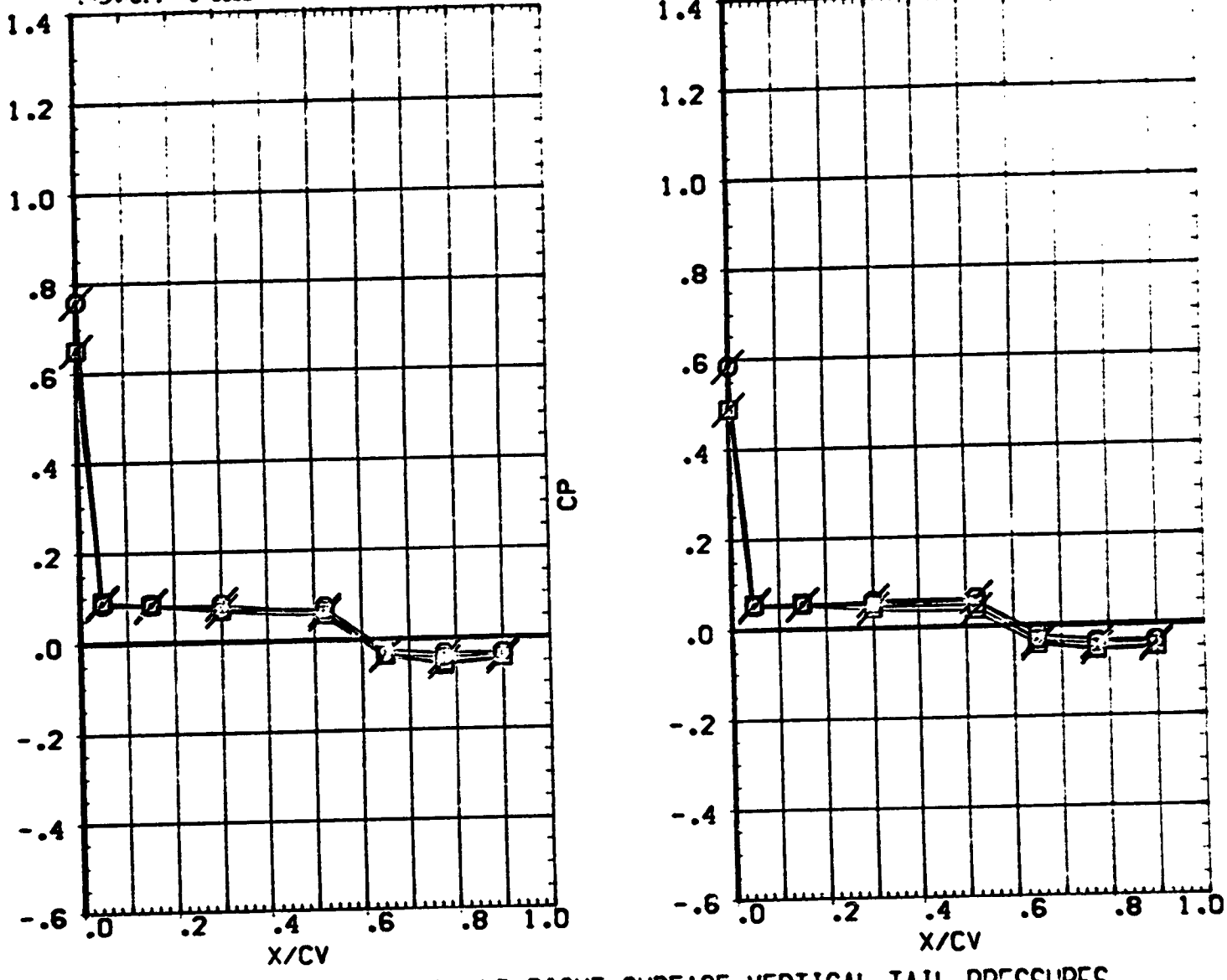
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BN	ALPHAT	MACH
[illegible]	.840	-4.070	3.502
	.925	-.030	

PARAMETRIC VALUES

BETAT	.000	[illegible]	.000
RUDDER	.000	[illegible]	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
RBNVC	OPEN	AMES 87-707 IA9 D2A + S3 + T9 LEFT VERTICAL
RBVPC	FLAGGED	AMES 87-707 IA9 D2A + S3 + T9 RIGHT VERTICAL



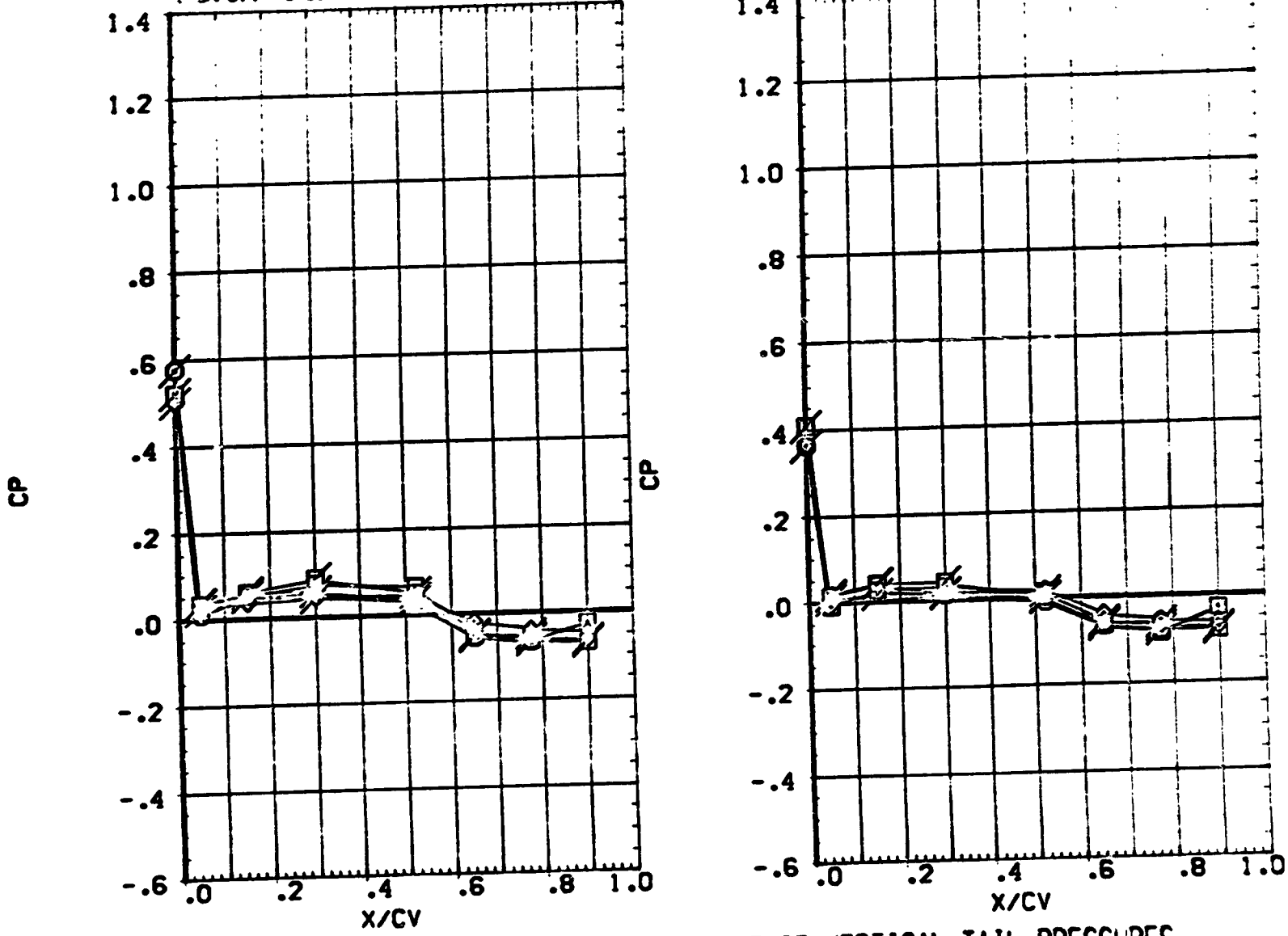
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	ALPHA	MACH
○	.158	3.960	3.502
□	.316	8.010	
◇	.632		

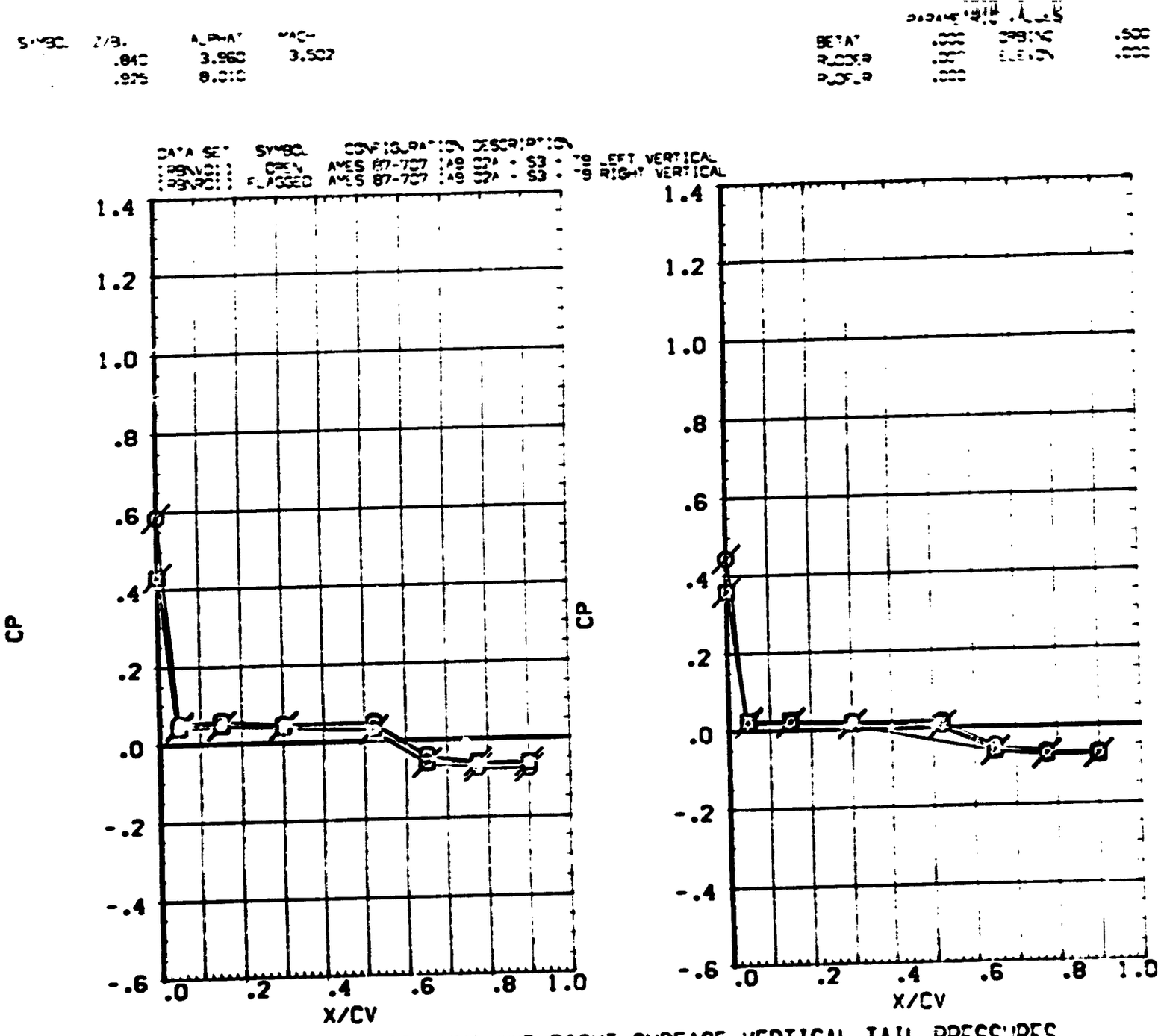
PARAMETRIC VALUES

BETAT	.000	SPOILER	.000
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
PSVVC1	OPEN	AMES 87-707 IA9 C2A + S3 + T9 LEFT VERTICAL
PSVVC1	FLAGGED	AMES 87-707 IA9 C2A + S3 + T9 RIGHT VERTICAL

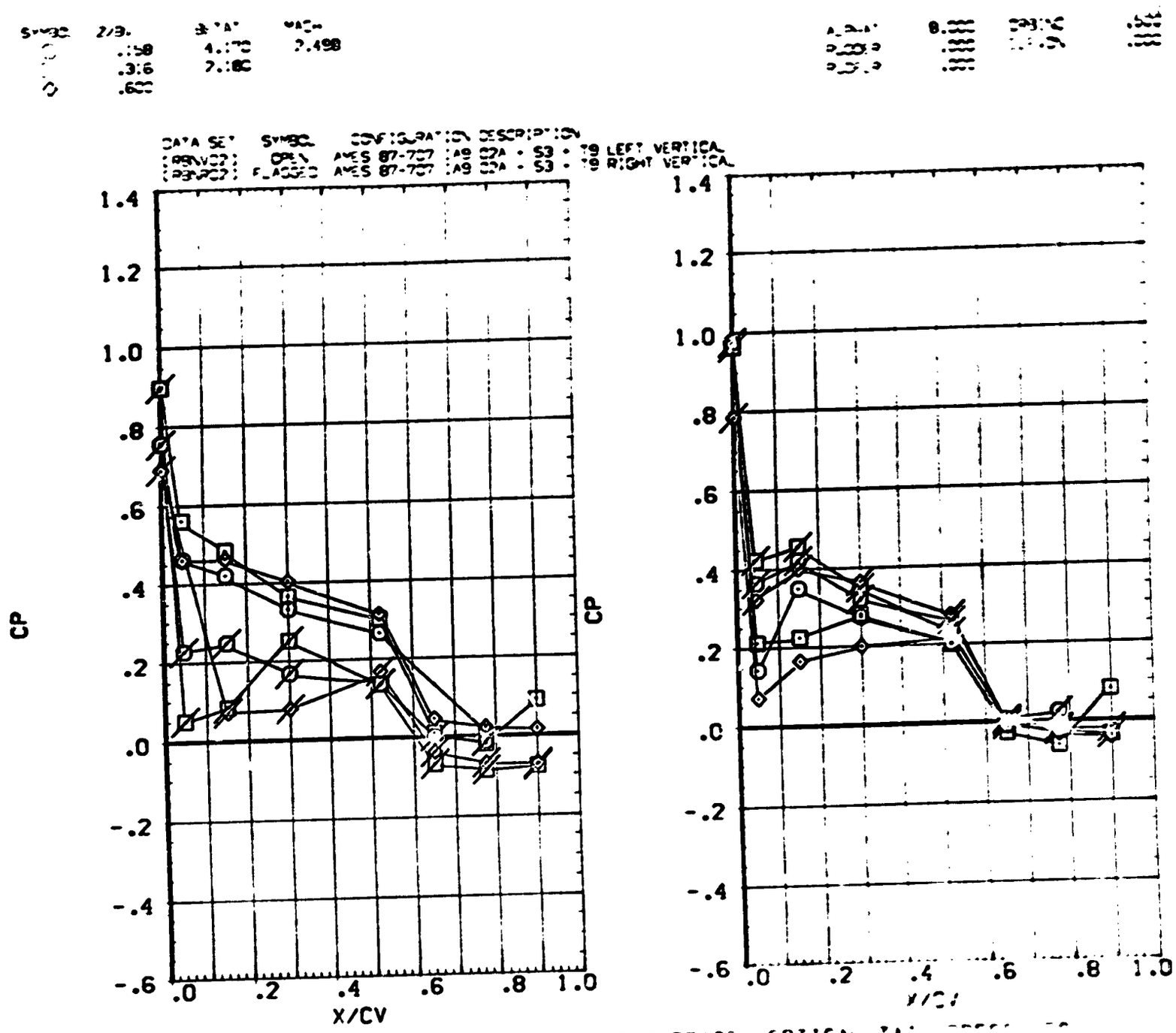


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

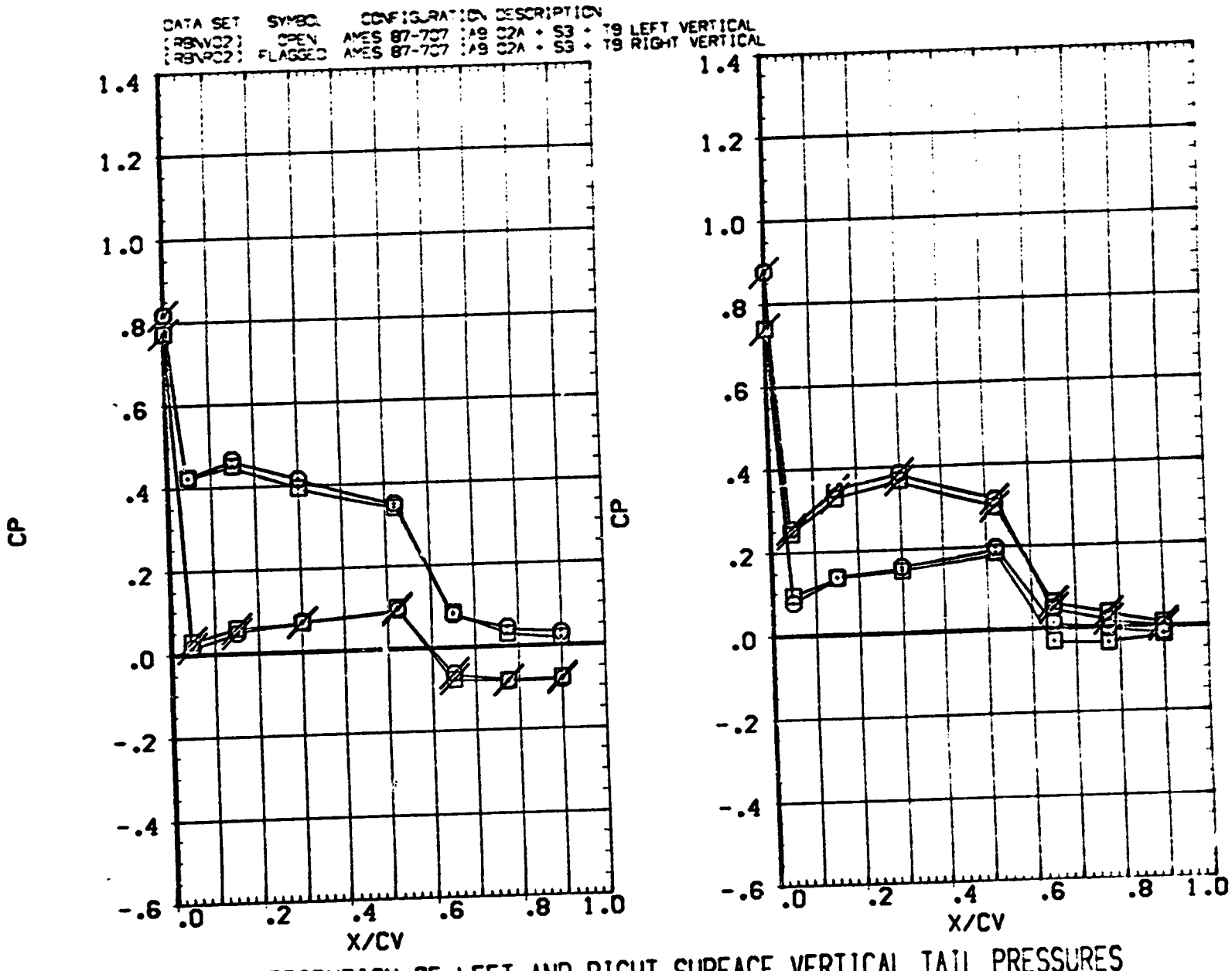


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PAGE B28



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL

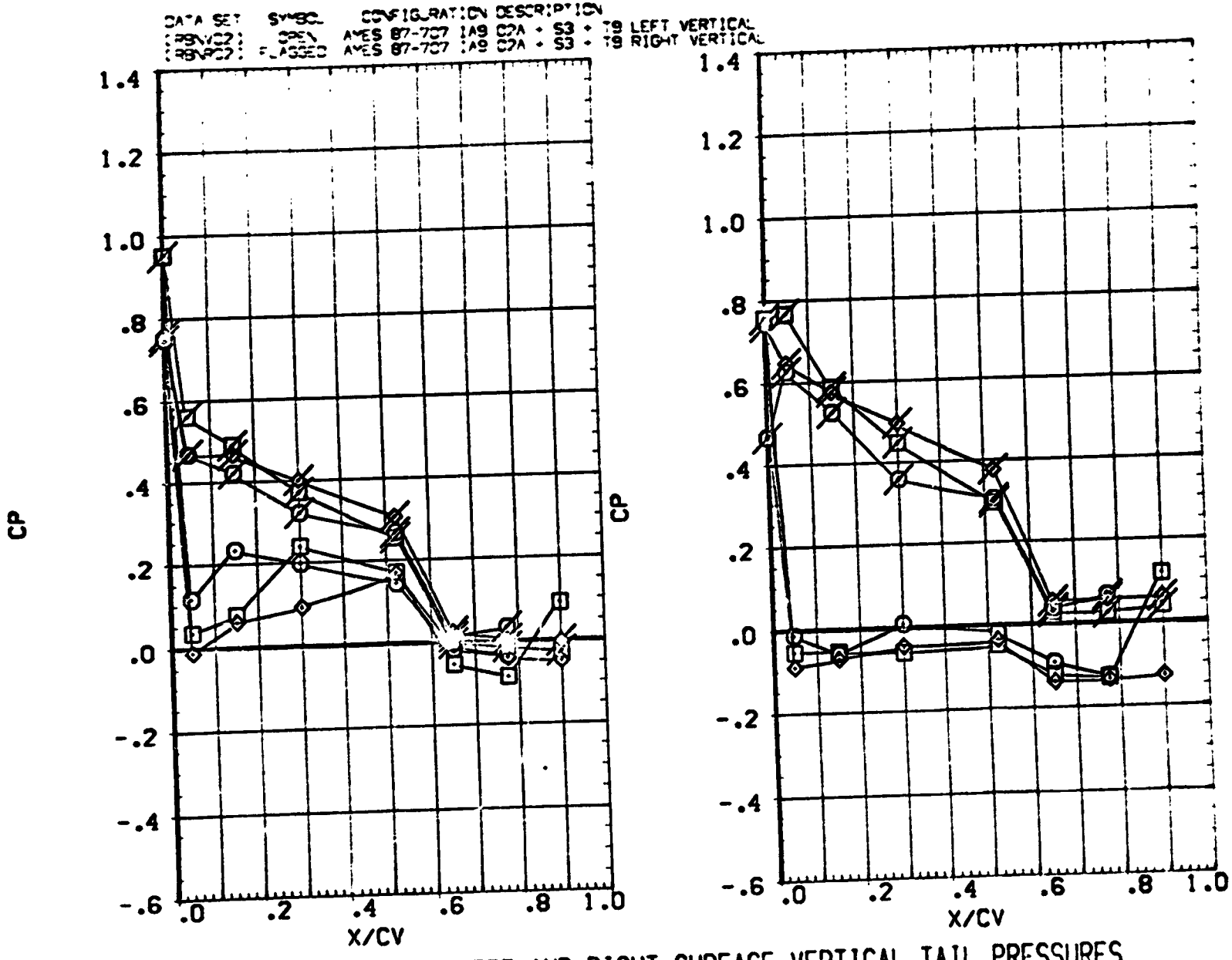


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETA	MACH
	.158	4.320	2.498
	.316	8.580	
◇	.600		

PARAMETRIC VALUES

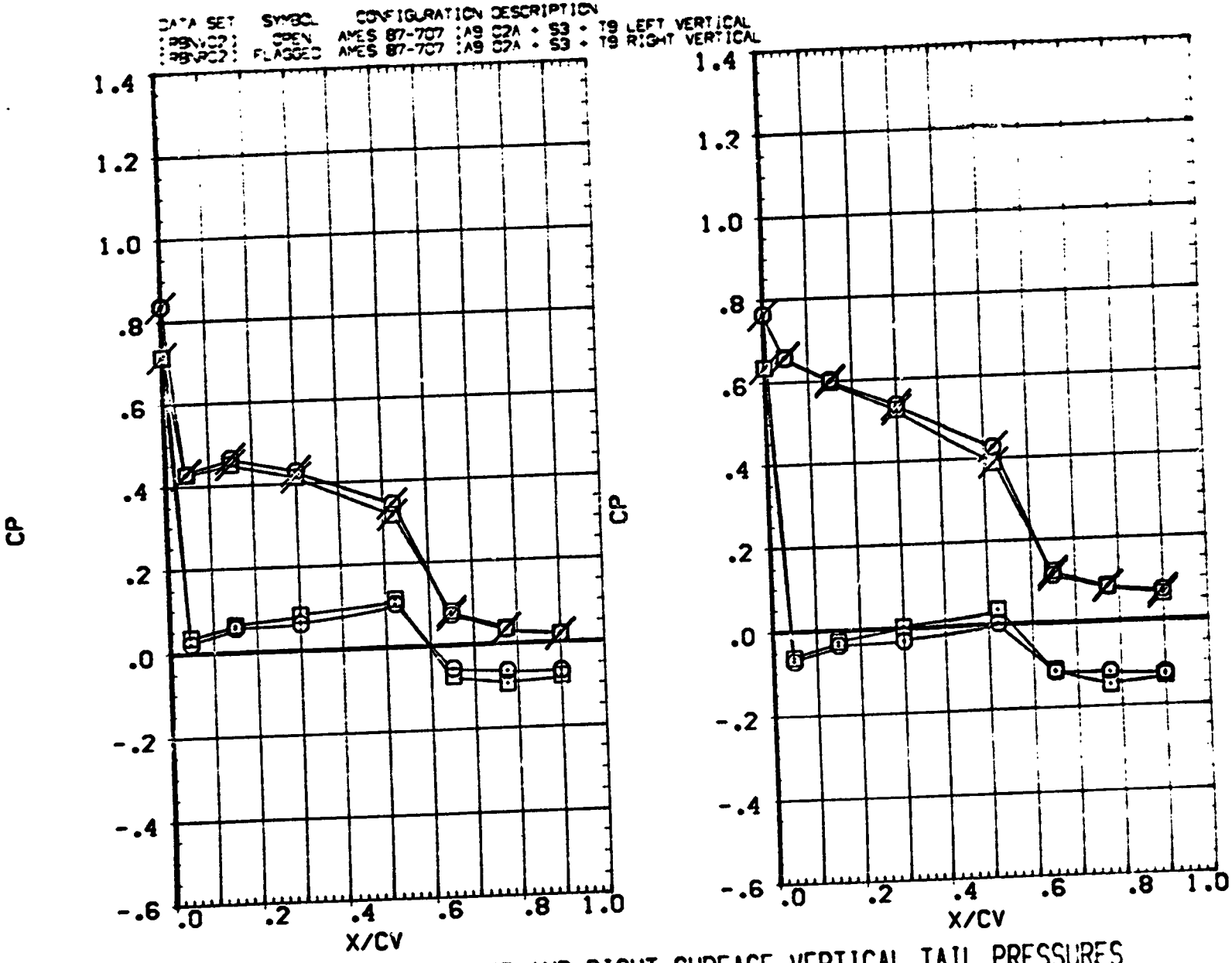
ALPHAT	-8.000	DSB/C	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETA	MACH
○	.840	4.320	2.498
□	.975	8.590	

ALPHAT	-0.000	[illegible]	.000
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



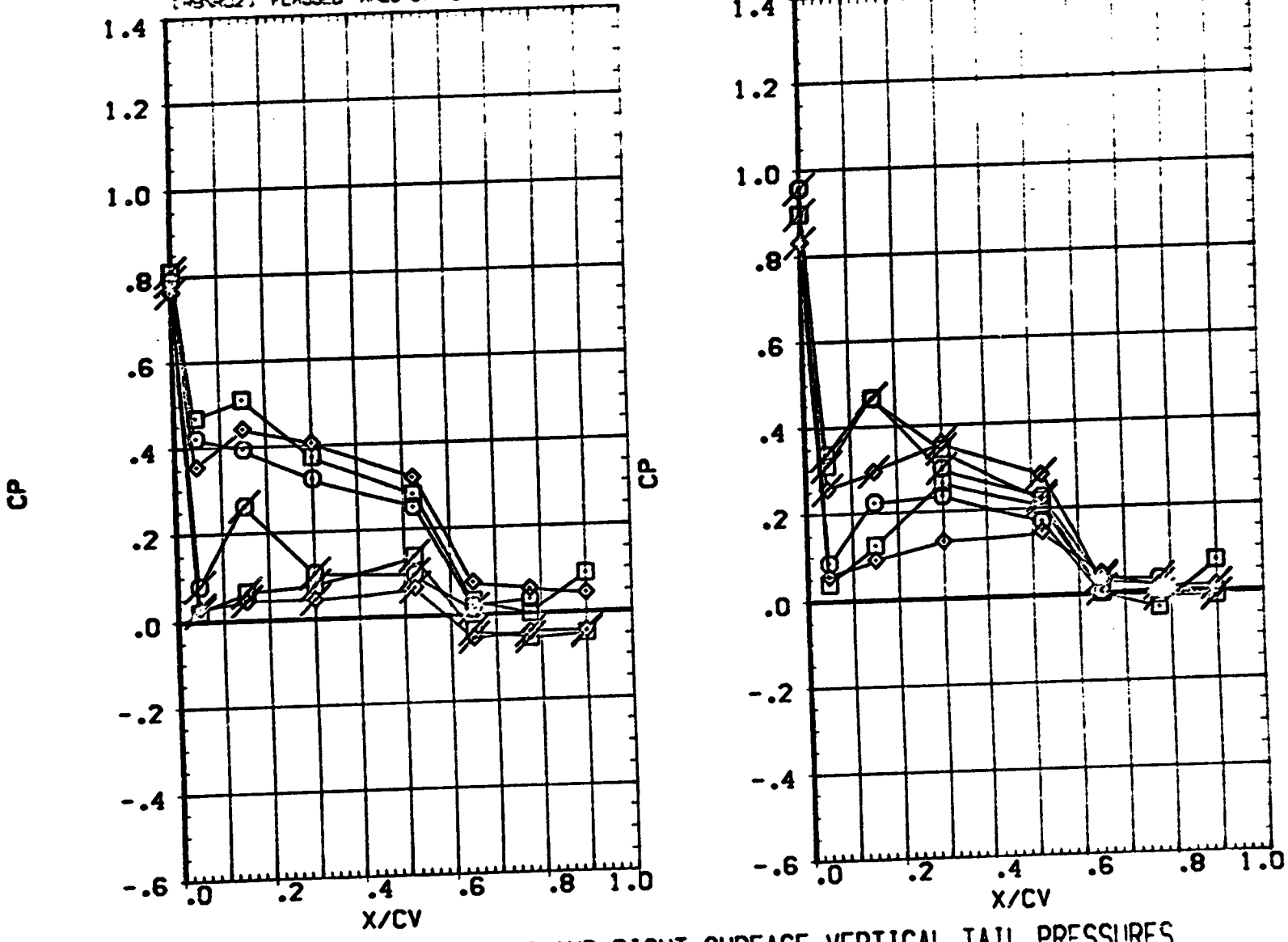
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETAT	MACH
○	.158	-4.250	2.999
□	.316	2.230	
◇	.600		

PARAMETRIC VALUES

ALPHA	-8.000	DBINC	.500
RUDDER	.000	ELEVON	.000
RUDDER	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNVO2)	OPEN	AMES 87-707 :A9 S2A + S3 + T9 LEFT VERTICAL
(RBNRO2)	FLAGGED	AMES 87-707 :A9 S2A + S3 + T9 RIGHT VERTICAL



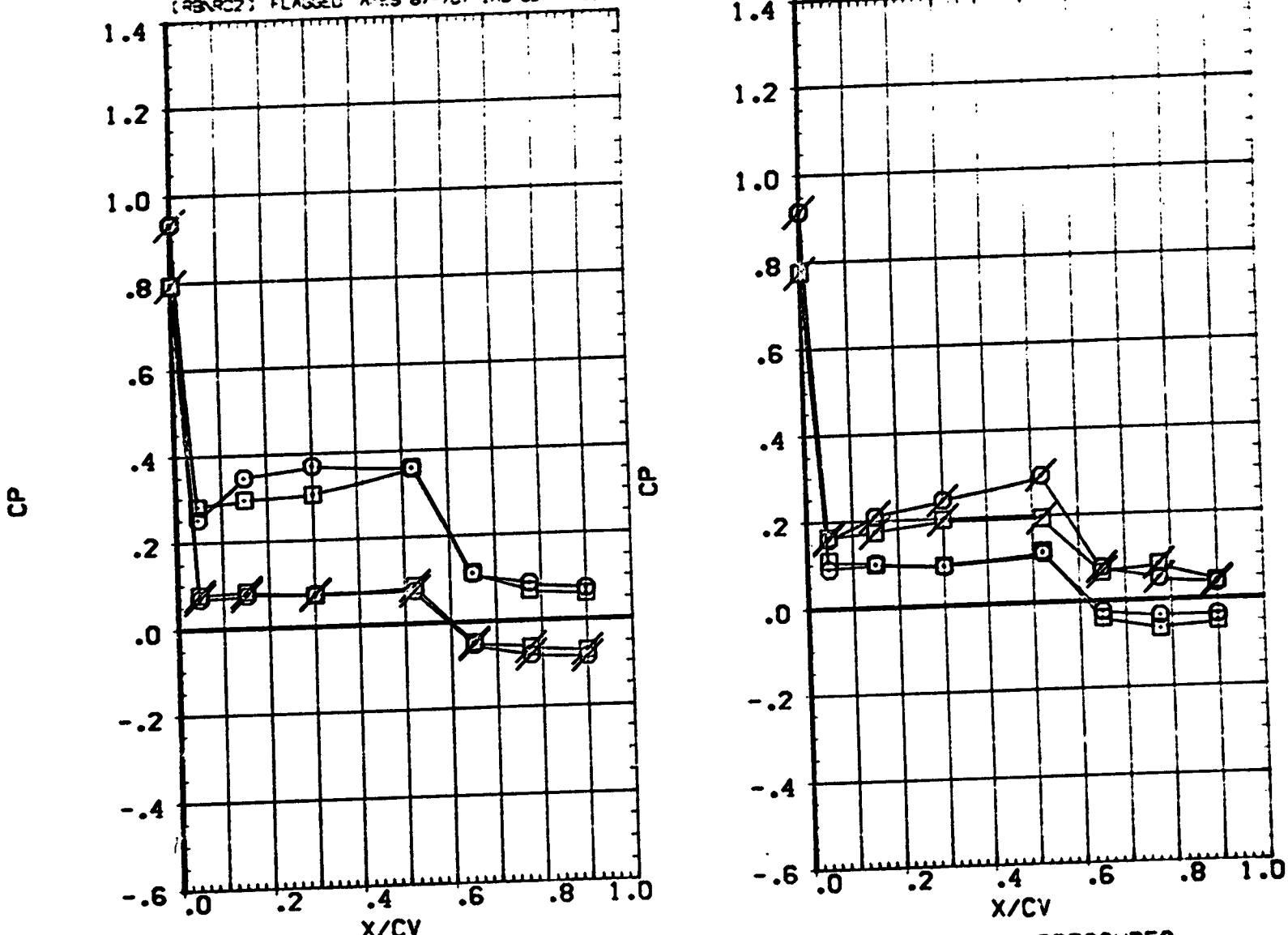
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA	MACH
○	.840	-4.250	7.999
□	.925	2.230	

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROLLER	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNVC2)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(RBNRC2)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



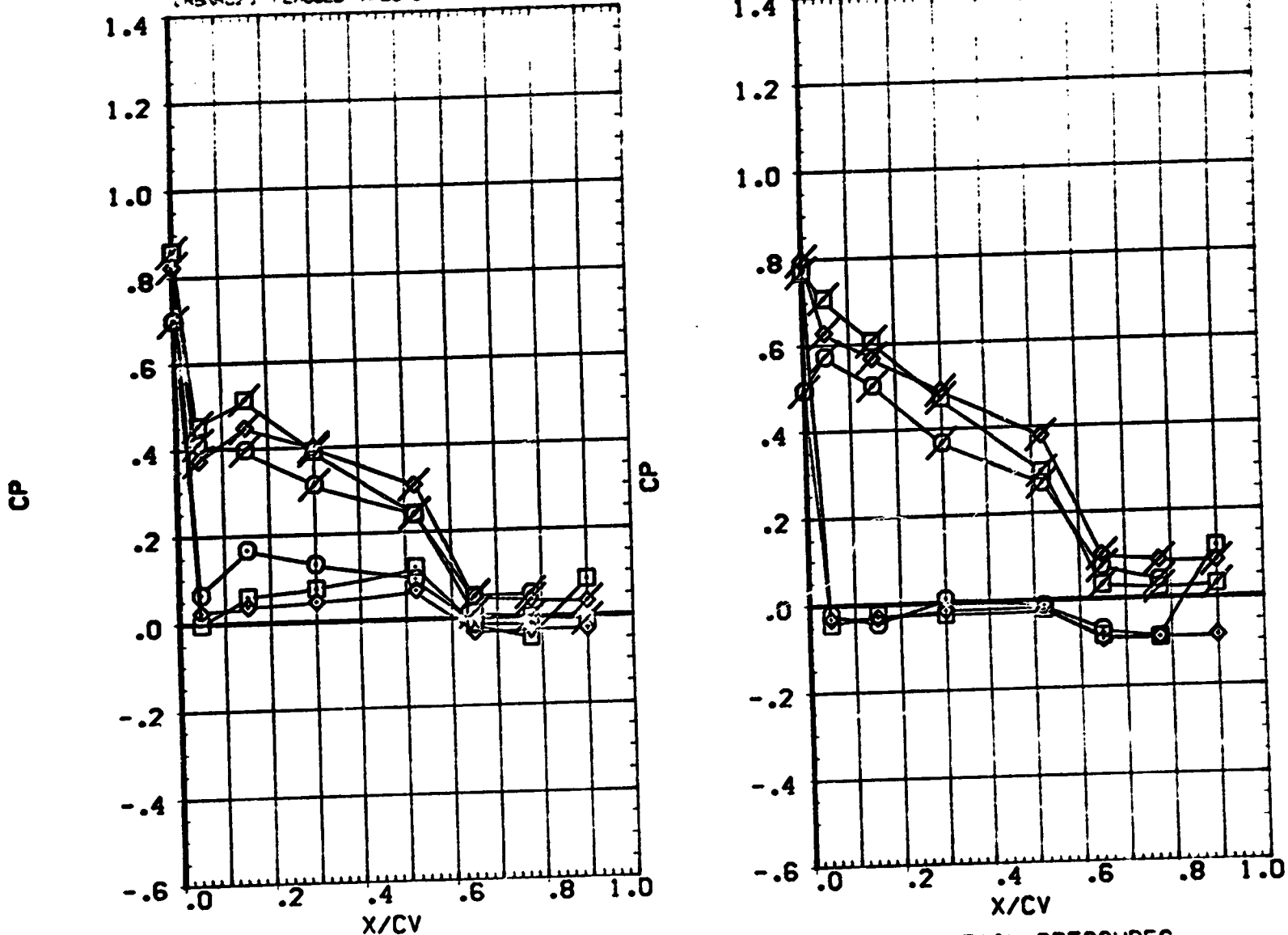
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	4.400	2.999
□	.316	8.750	
◇	.600		

PARAMETRIC VALUES

ALPHAT	-8.000	DOG:C	.500
RUDDER	.000	ELEVON	.000
RUDDLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RSNVC2)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(RSNRC2)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL

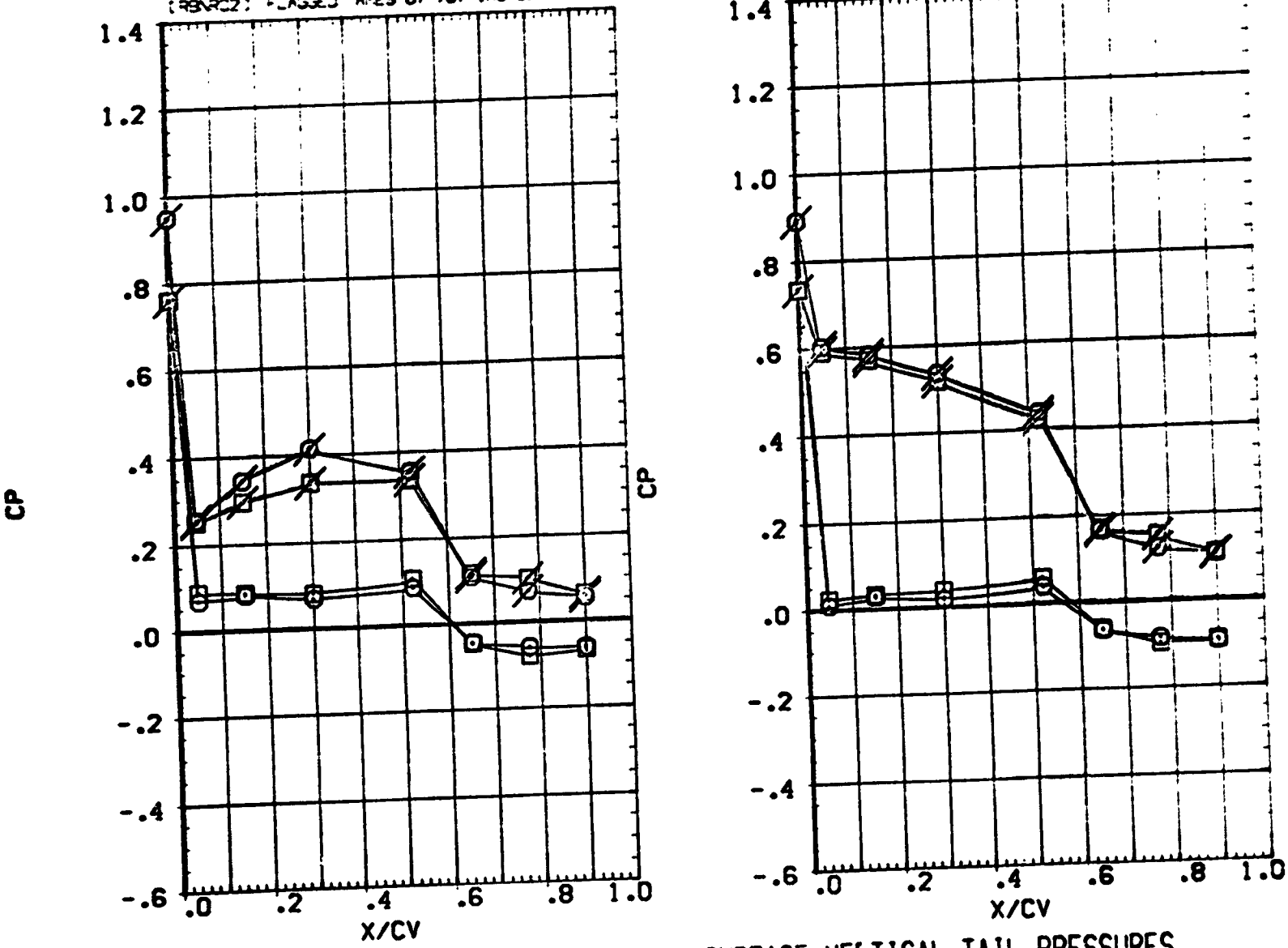


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV		
	.840	4.400	2.999
	.925	8.750	

RUDDER	.000	ELEV	.000
RUDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBNVC2) OPEN AMES 87-707 IA9 C2A + S3 + T9 LEFT VERTICAL
(RBNRC2) FLAGGED AMES 87-707 IA9 C2A + S3 + T9 RIGHT VERTICAL



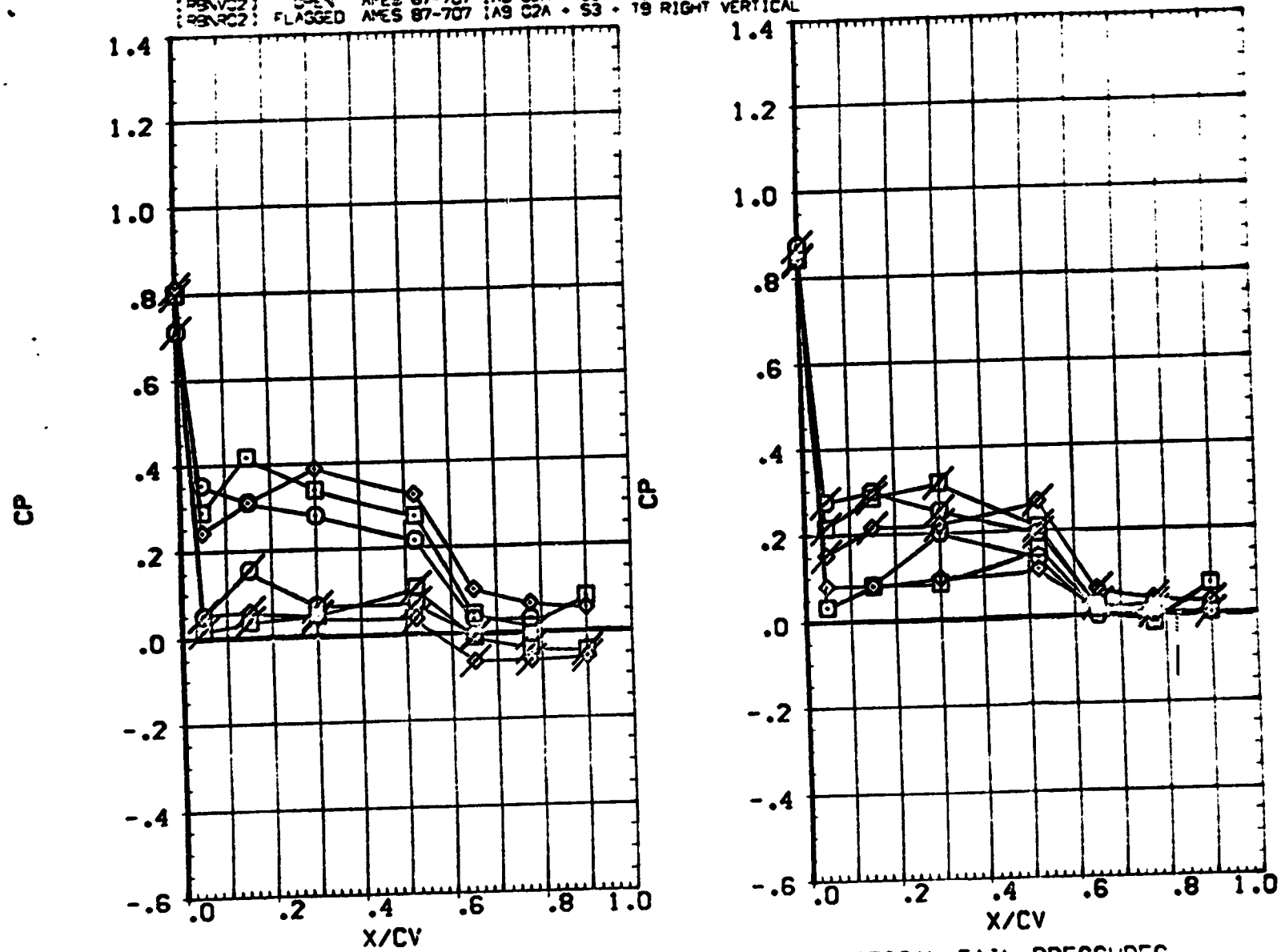
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.330	3.502
□	.316	2.260	
◇	.632		

PARAMETRIC VALUES

ALPHAT	-8.000	SB:VC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

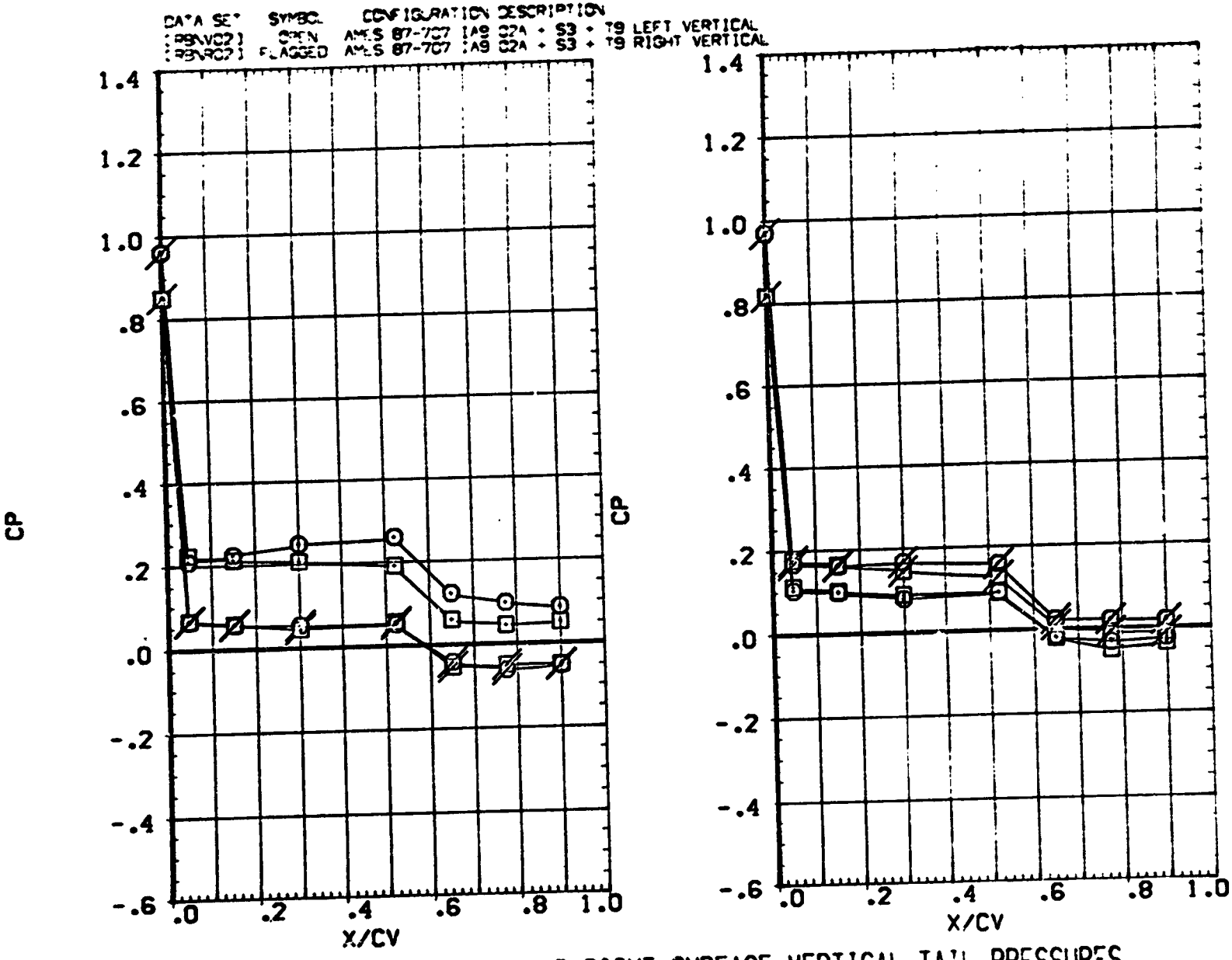
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PSVC2)	OPEN	AMES 87-707 1A9 C2A + S3 + T9 LEFT VERTICAL
(PSVR2)	FLAGGED	AMES 87-707 1A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

.840 -4.330 3.507
.925 2.260

RUDDER .000 ELEVON .000
RUDDER .000



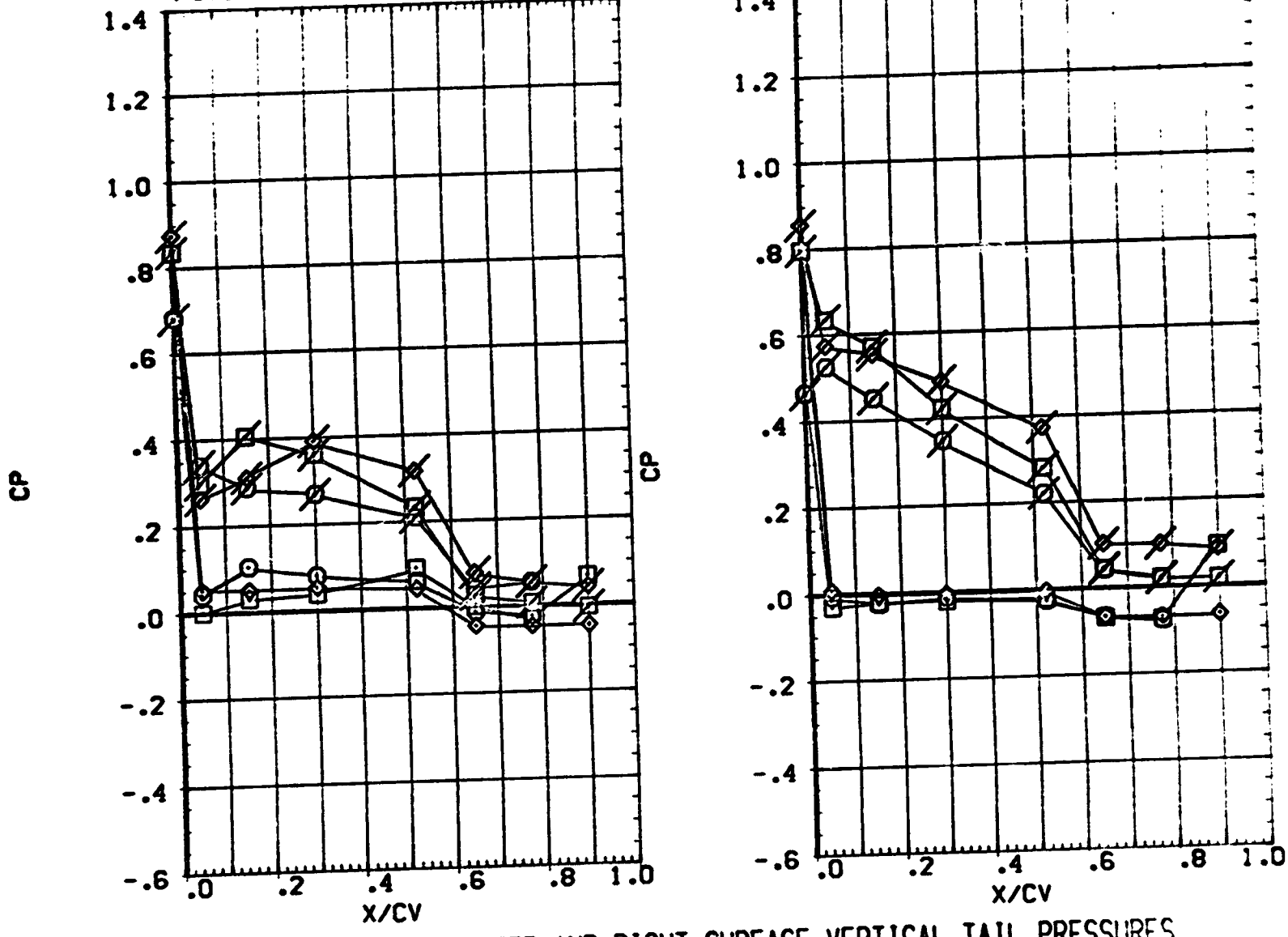
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETA	MACH
◇	.158	4.480	3.502
	.316	8.910	
	.600		

PARAMETRIC VALUES

ALPHAT	-8.000	SWEEP	.500
RUDDER	.000	ELEVN	.000
ROLLR	.000		

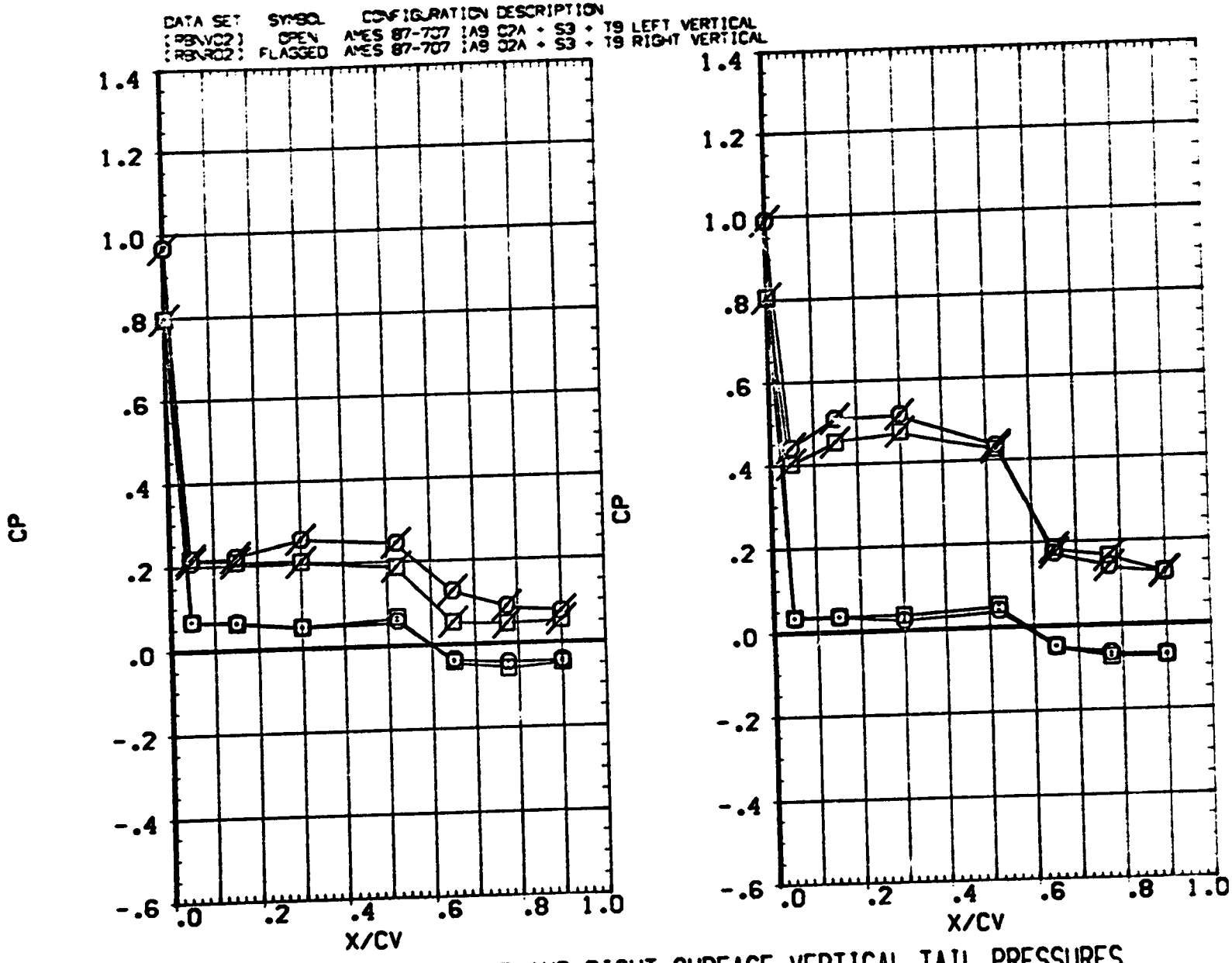
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBVC2)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(RBVR2)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

	.840	4.480	3.502
	.975	8.910	

RUDDER	.000	ELEVON	.000
RUDFLR	.000		



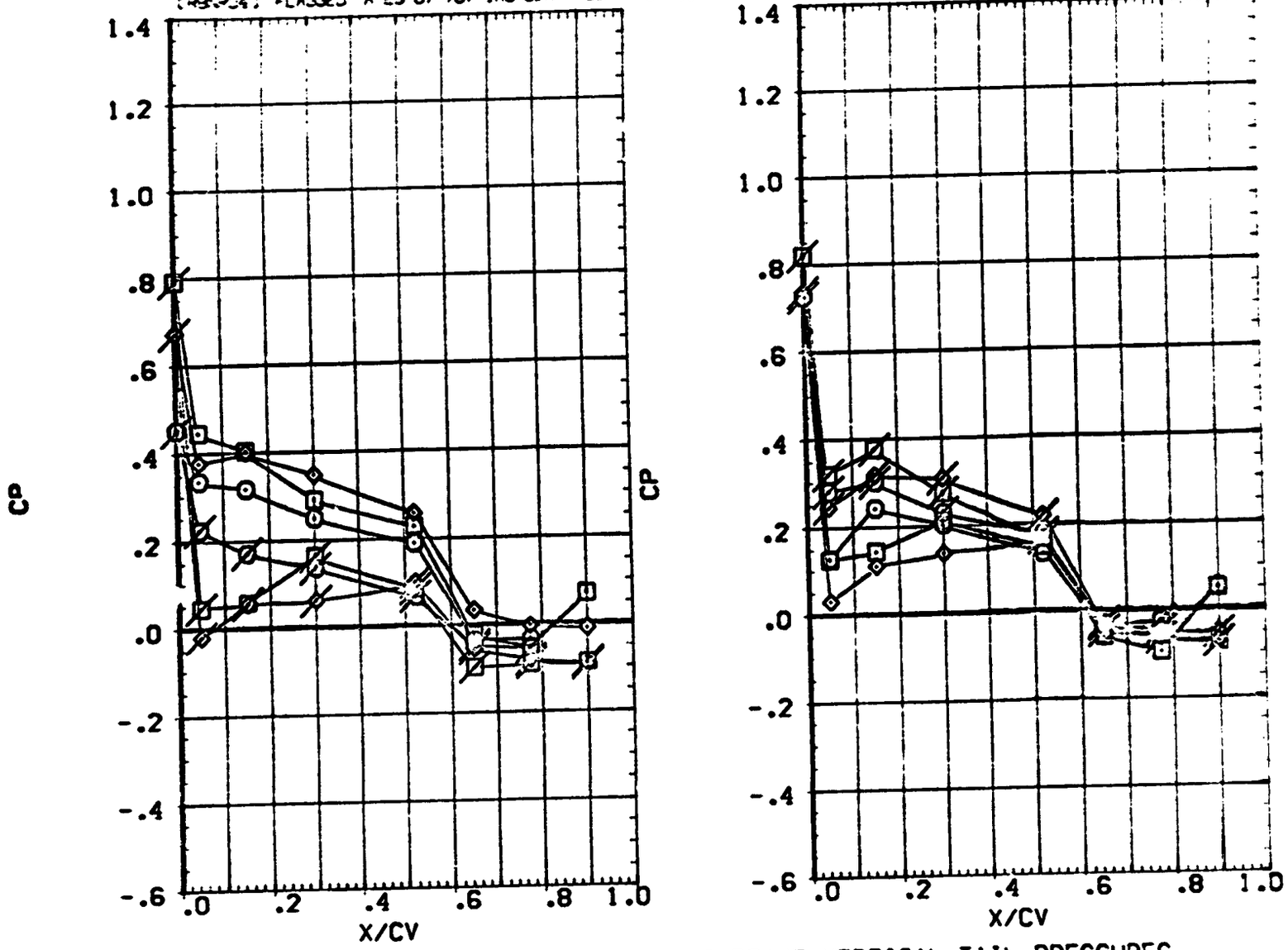
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA	MACH
○	.158	-4.190	2.498
□	.316	2.180	
◇	.600		

PARAMETRIC VALUES

ALPHAT	-4.000	DSPINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBWVC4)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(RBWPC4)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



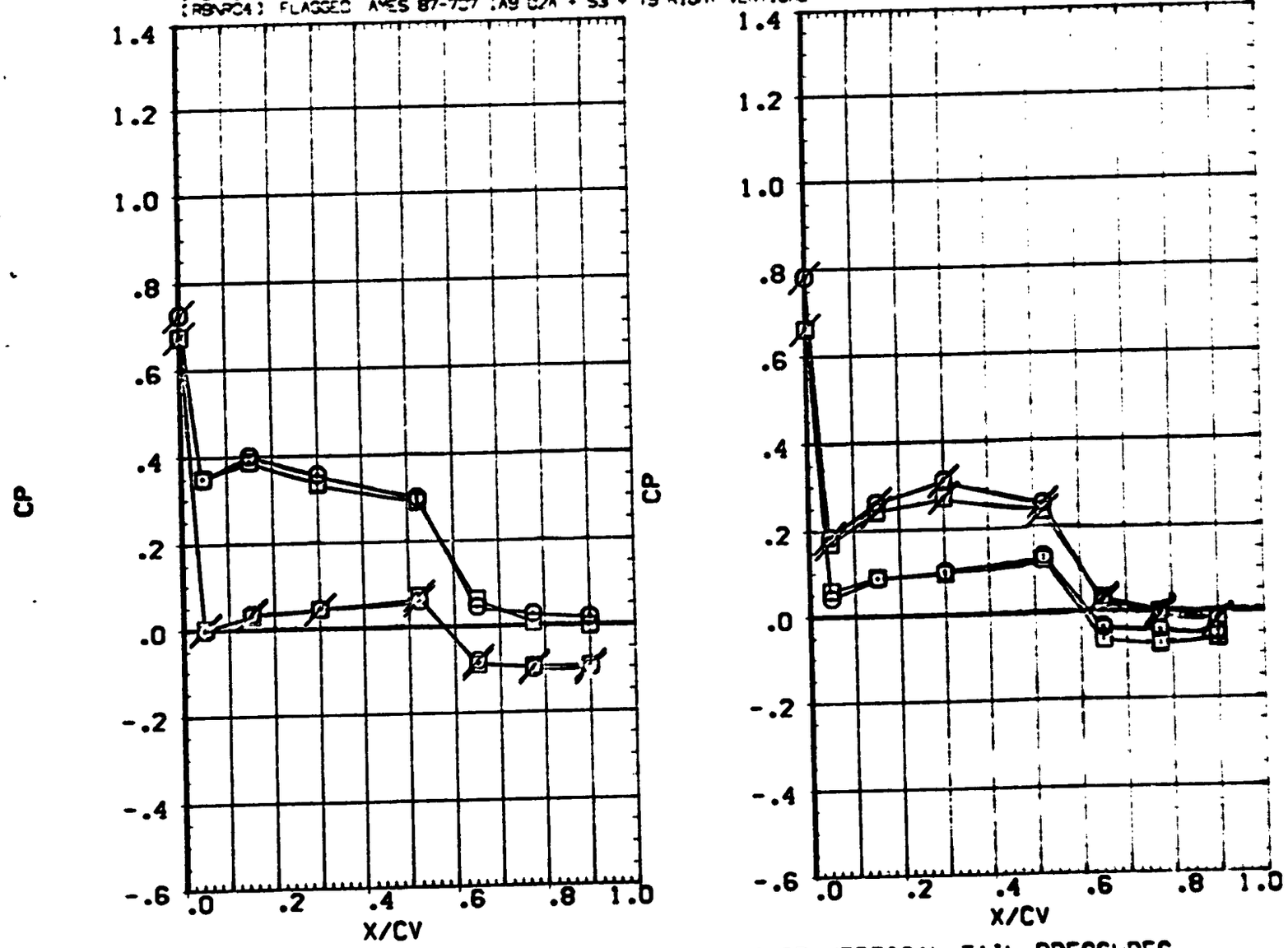
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETA	MACH
	.840	-4.190	2.498
	.925	2.180	

PARAMETRIC VALUES

ALPHA	-4.000	SPOILER	.500
RUDDER	.000	ELEVON	.000
RUDDER	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBWVC4)	OPEN	AMES 87-707 :A9 D2A + S3 + T9 LEFT VERTICAL
(RBWVC4)	FLAGGED	AMES 87-707 :A9 D2A + S3 + T9 RIGHT VERTICAL



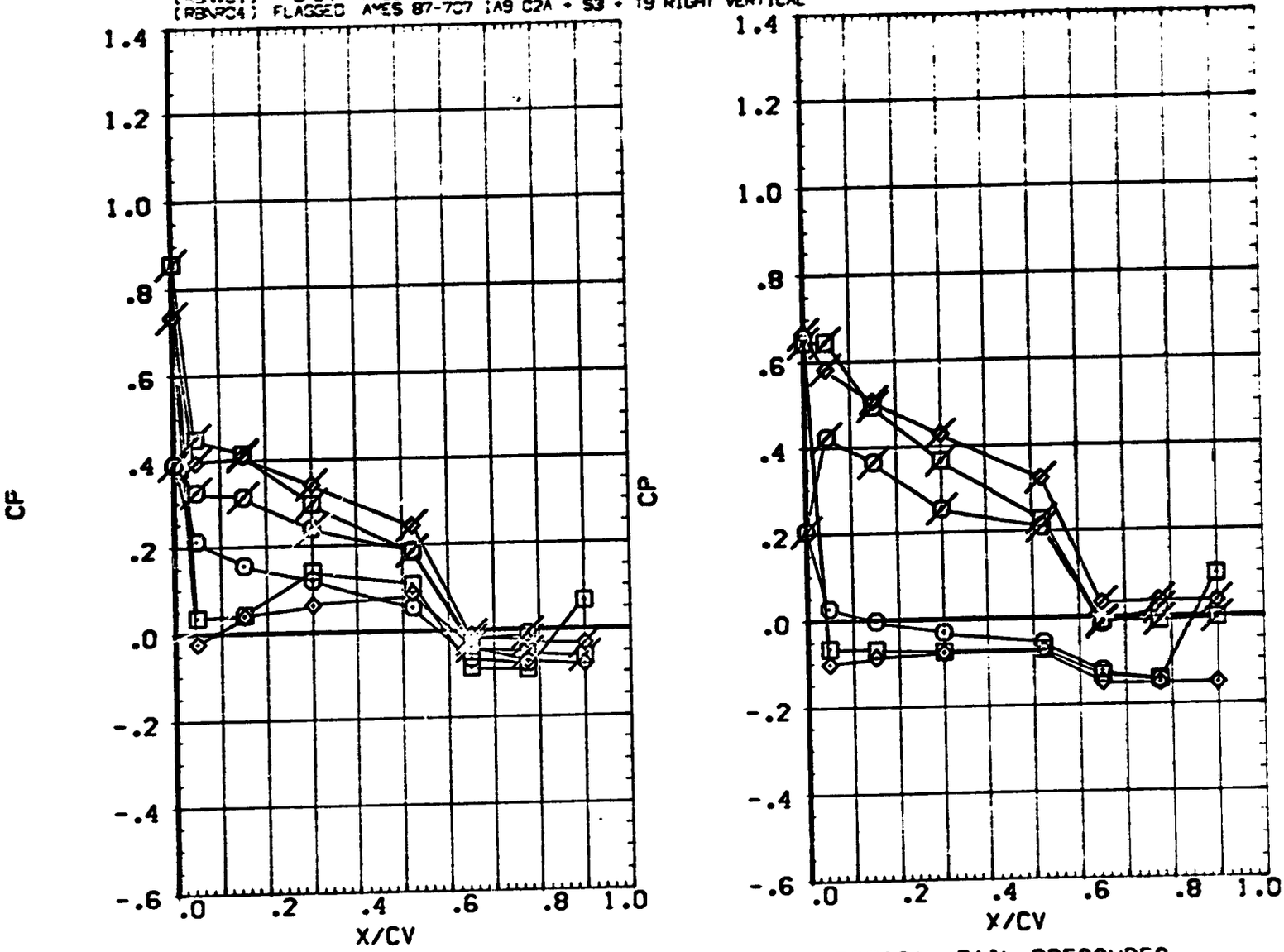
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	4.300	2.498
□	.316	8.550	
◇	.600		

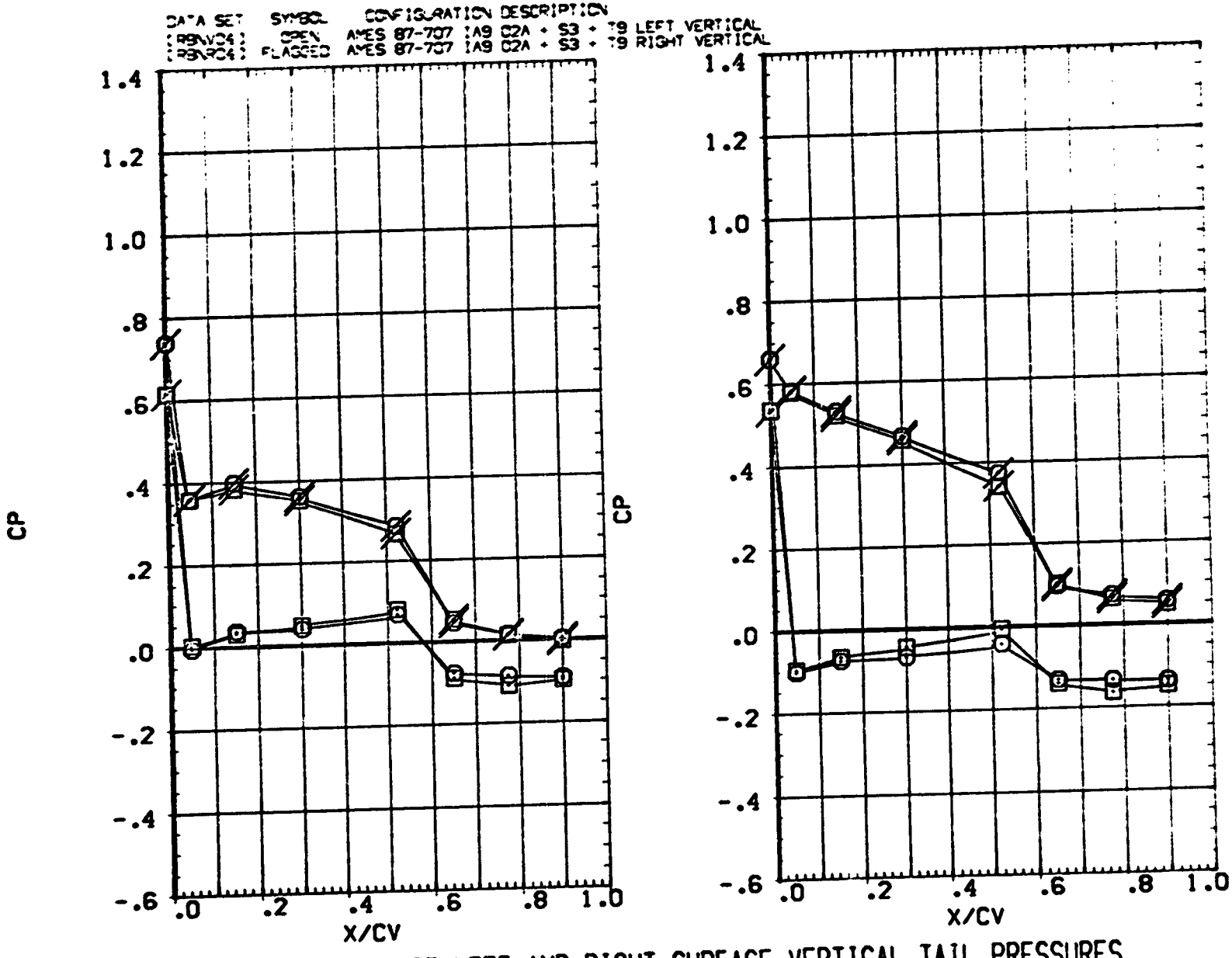
PARAMETRIC VALUES

ALPHAT	-4.000	DPSINC	.500
RUDDER	.000	ELEVON	.000
RUDDLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNVC4)	OPEN	AMES 87-707 (A9 C2A + S3 + T9 LEFT VERTICAL
(RBNRC4)	FLAGGED	AMES 87-707 (A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



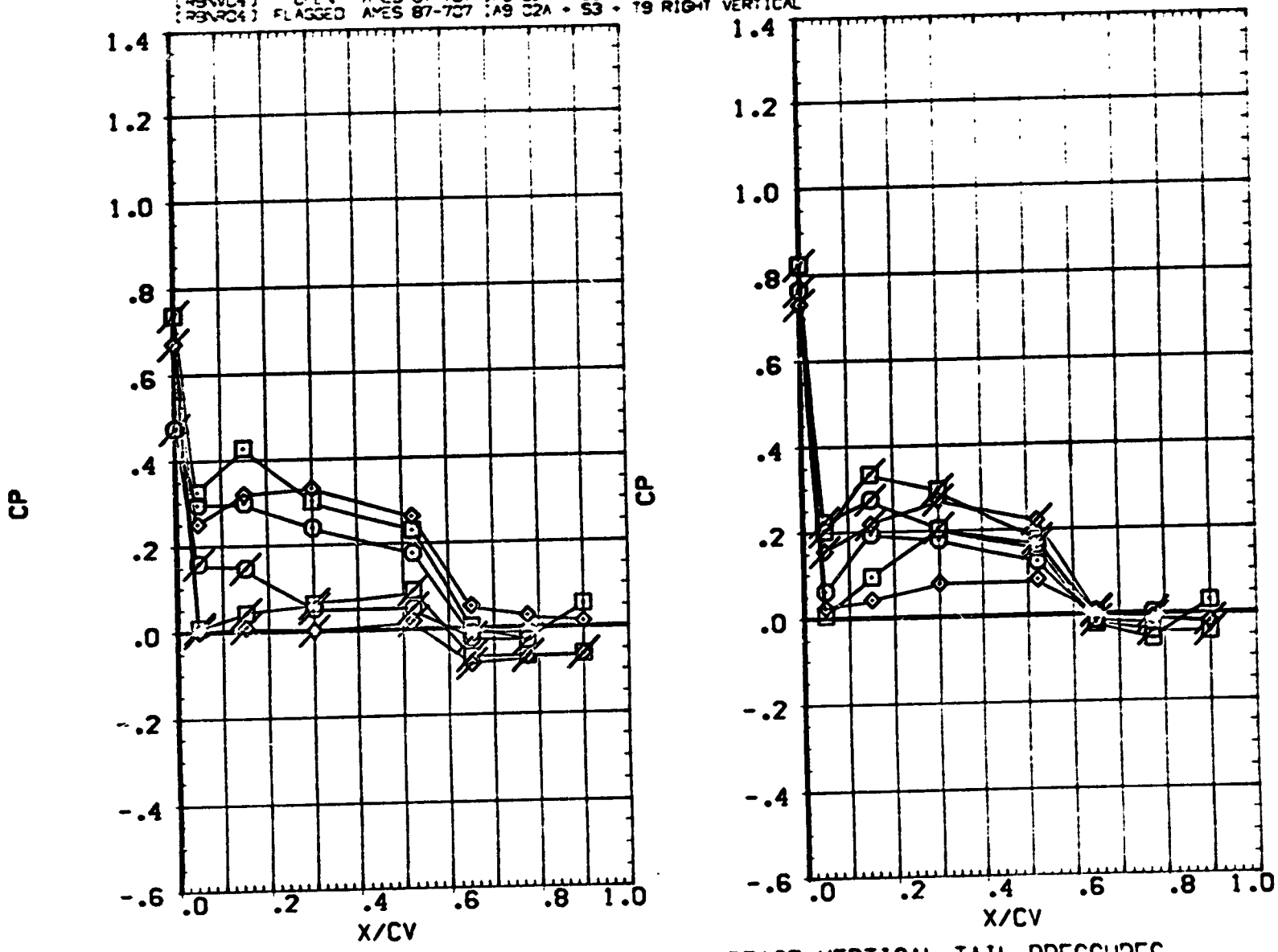
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETAT	MACH
○	.158	-4.260	2.999
□	.316	2.210	
◇	.600		

PARAMETRIC VALUES

ALPHA	-4.000	DBY:NC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNVC4)	OPEN	AMES 87-727 :A9 C2A + S3 + T9 LEFT VERTICAL
(RBNVC4)	FLAGGED	AMES 87-727 :A9 C2A + S3 + T9 RIGHT VERTICAL

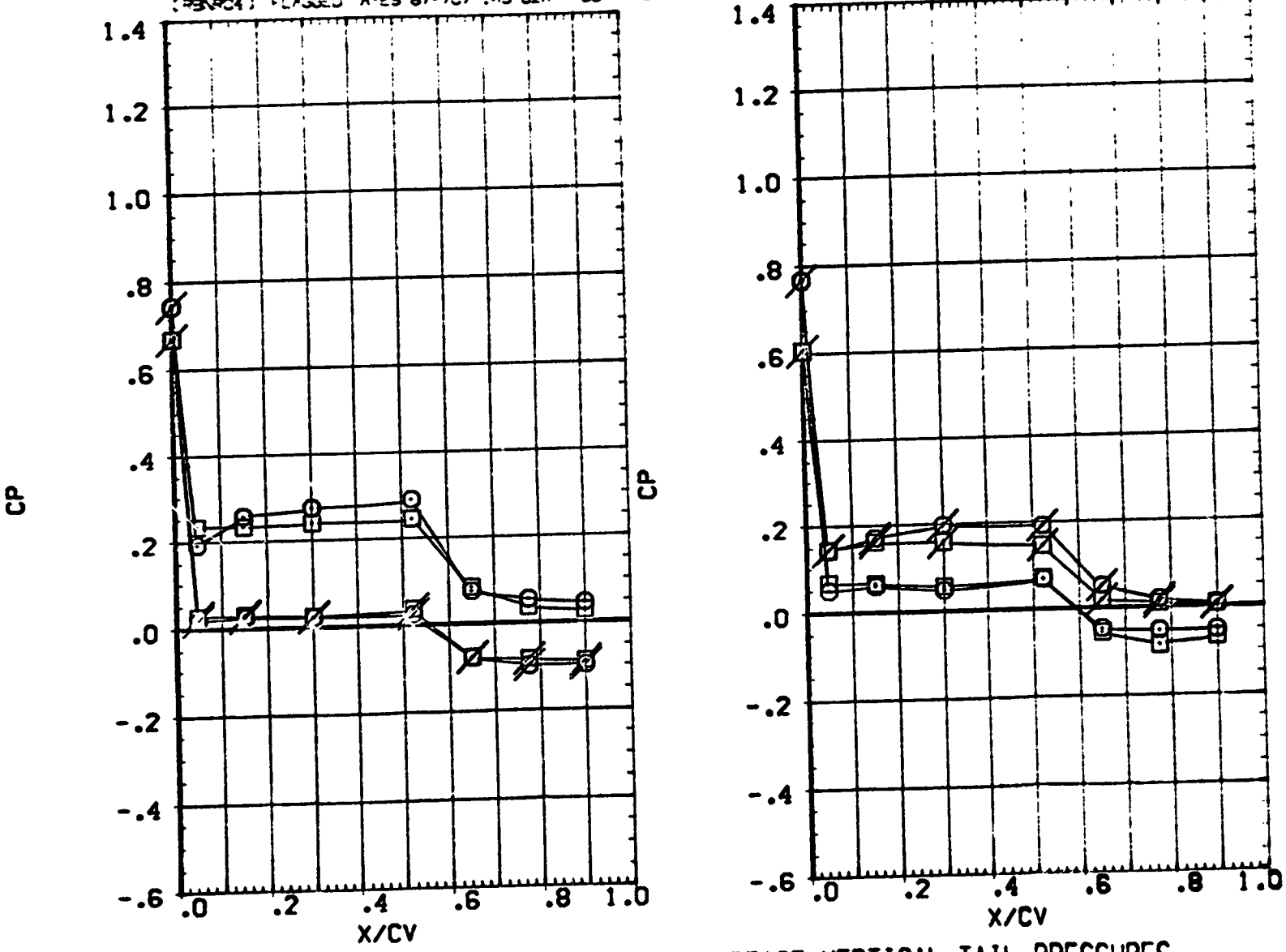


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B.	BETA	MACH
	.840	-4.260	2.999
	.925	2.210	

ALPHAT	-4.000	SBRK	.500
RUDDER	.000	ELEVN	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
RBNVC4	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
RBNRC4	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



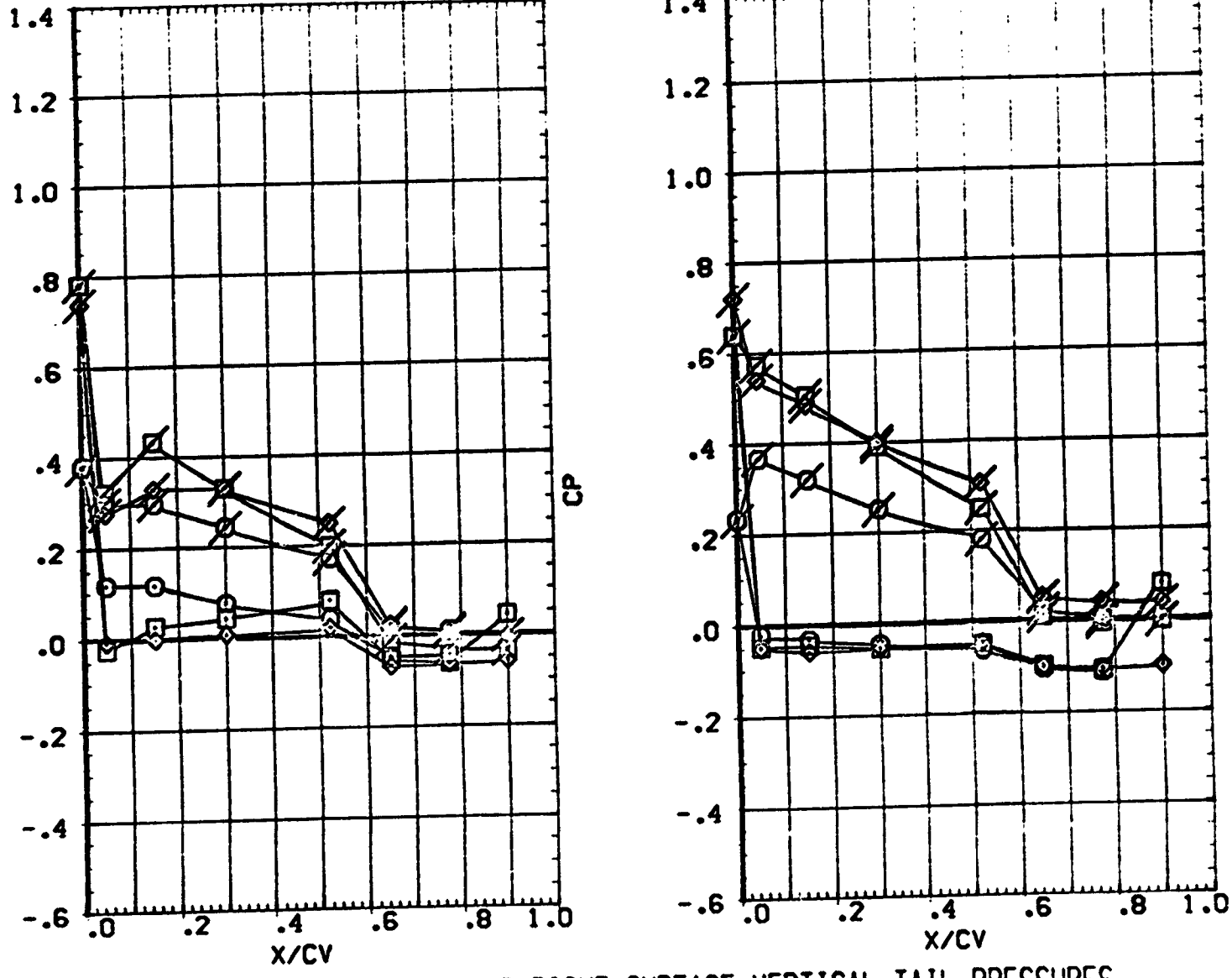
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETAT	MACH
○	.158	4.380	2.999
□	.316	8.710	
◇	.600		

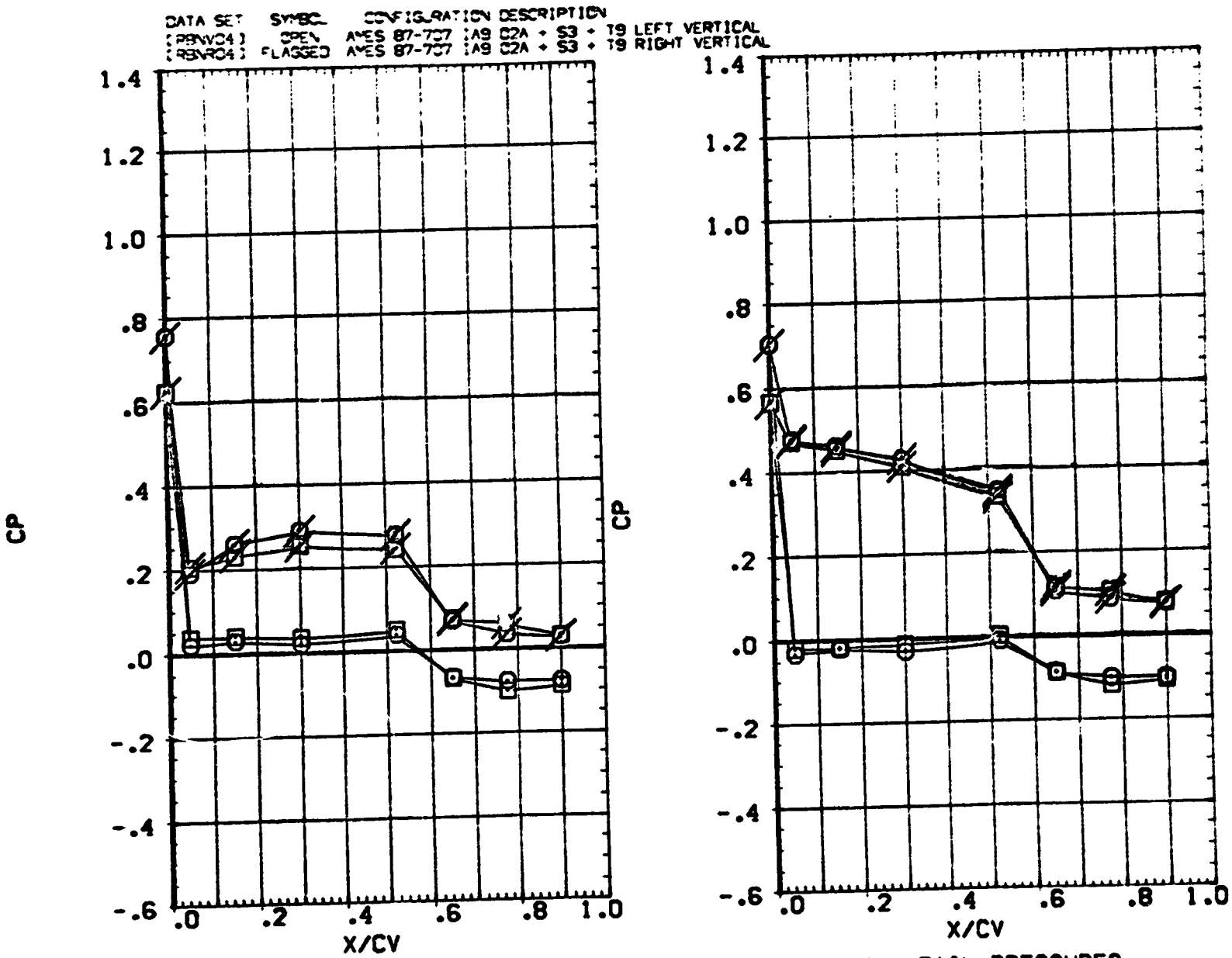
PARAMETRIC VALUES

ALPHAT	-4.000	DRIVE	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNVC4)	OPEN	AMES 87-727 :A9 C2A + S3 + T9 LEFT VERTICAL
(RBNVC4)	FLAGGED	AMES 87-727 :A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



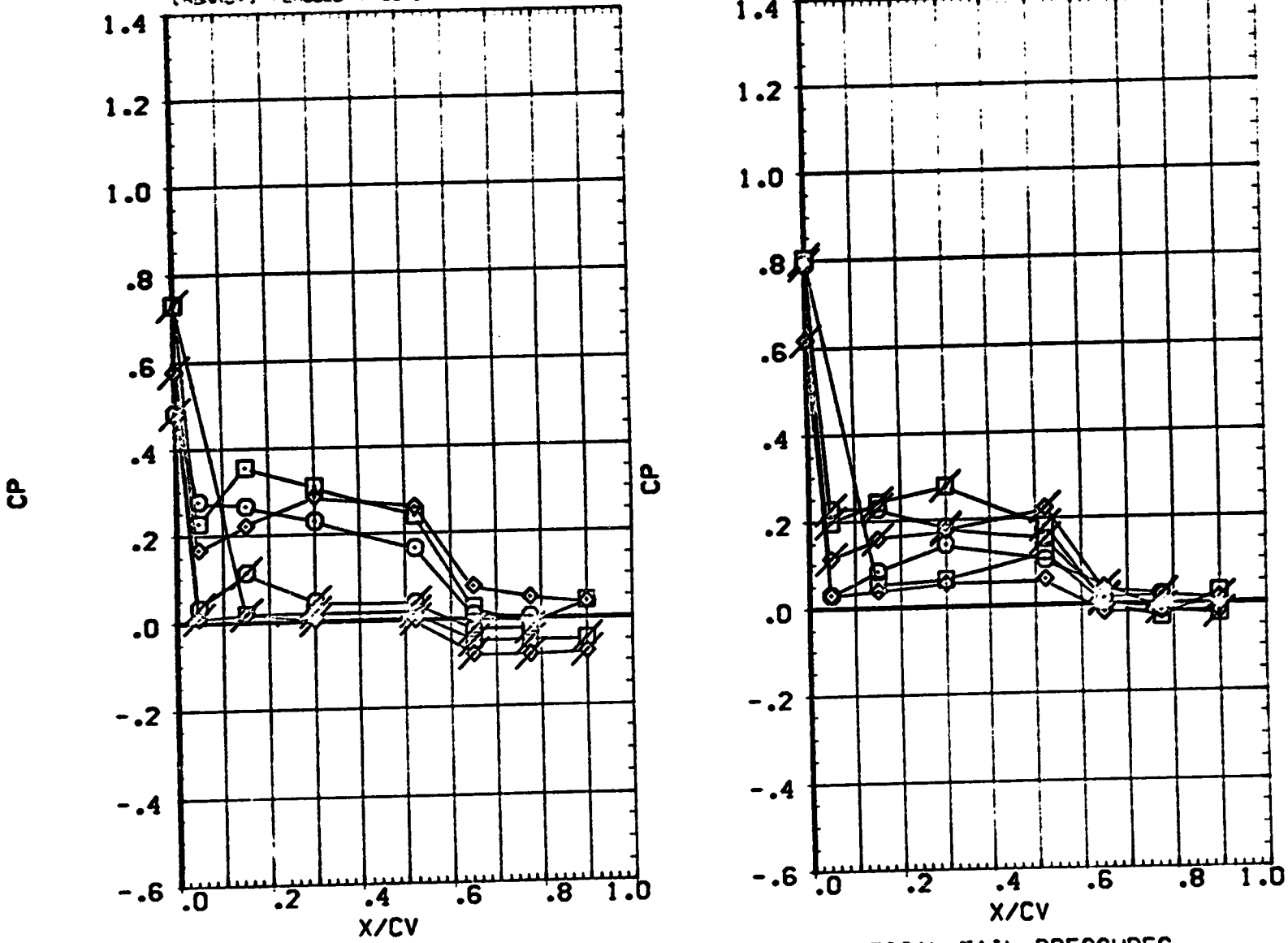
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.340	3.502
□	.316	2.060	
◇	.600		

PARAMETRIC VALUES

ALPHA	-4.000	SPB:NC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
RBNVC4	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
RBNVC4	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



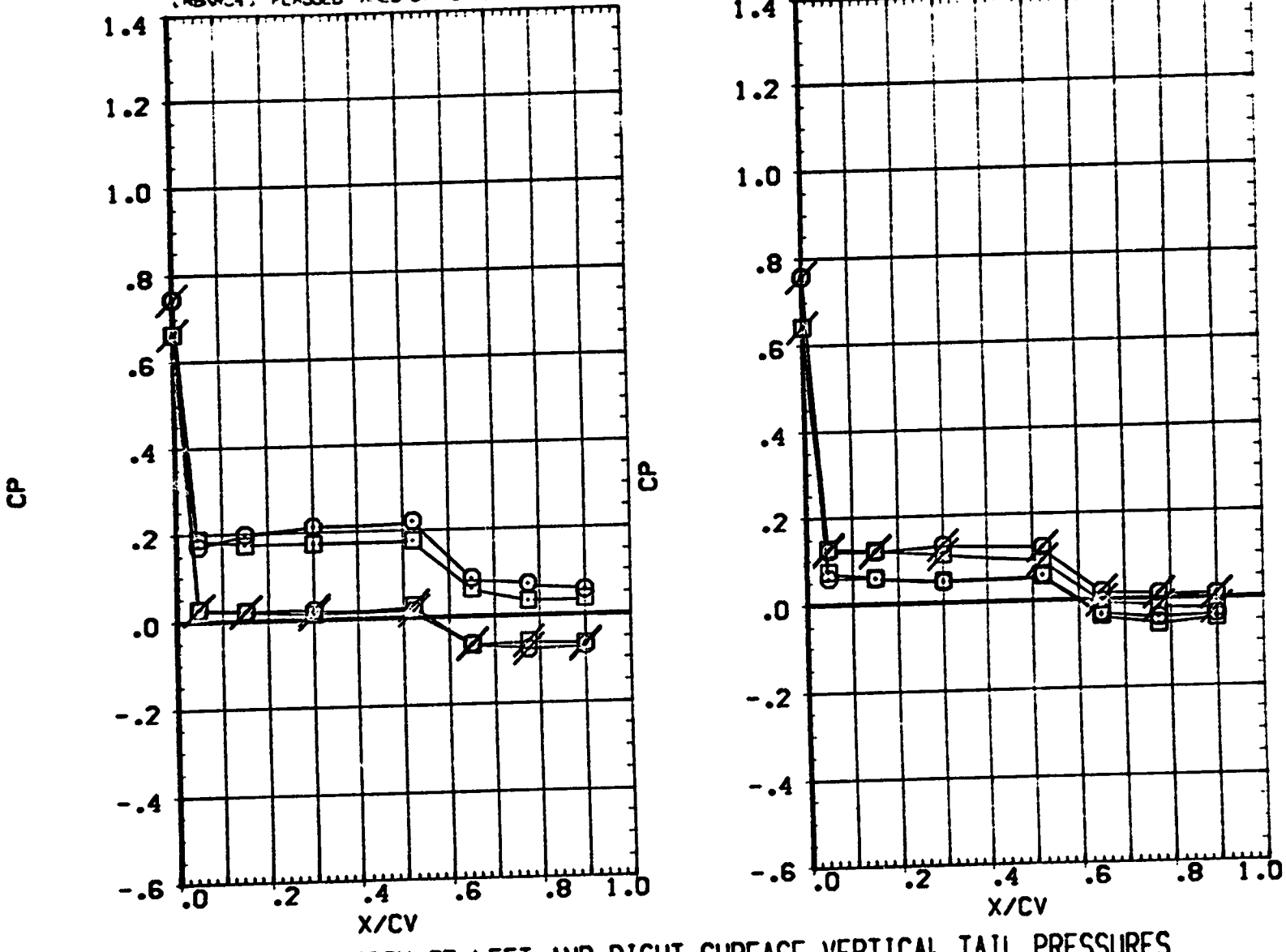
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA	MACH
○	.840	4.340	3.507
□	.925	7.260	

PARAMETRIC VALUES

ALPHAT	-4.000	DRBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNVC4)	OPEN	AMES 87-707 (A9 C2A + S3 + T9 LEFT VERTICAL
(RBNRC4)	FLAGGED	AMES 87-707 (A9 C2A + S3 + T9 RIGHT VERTICAL



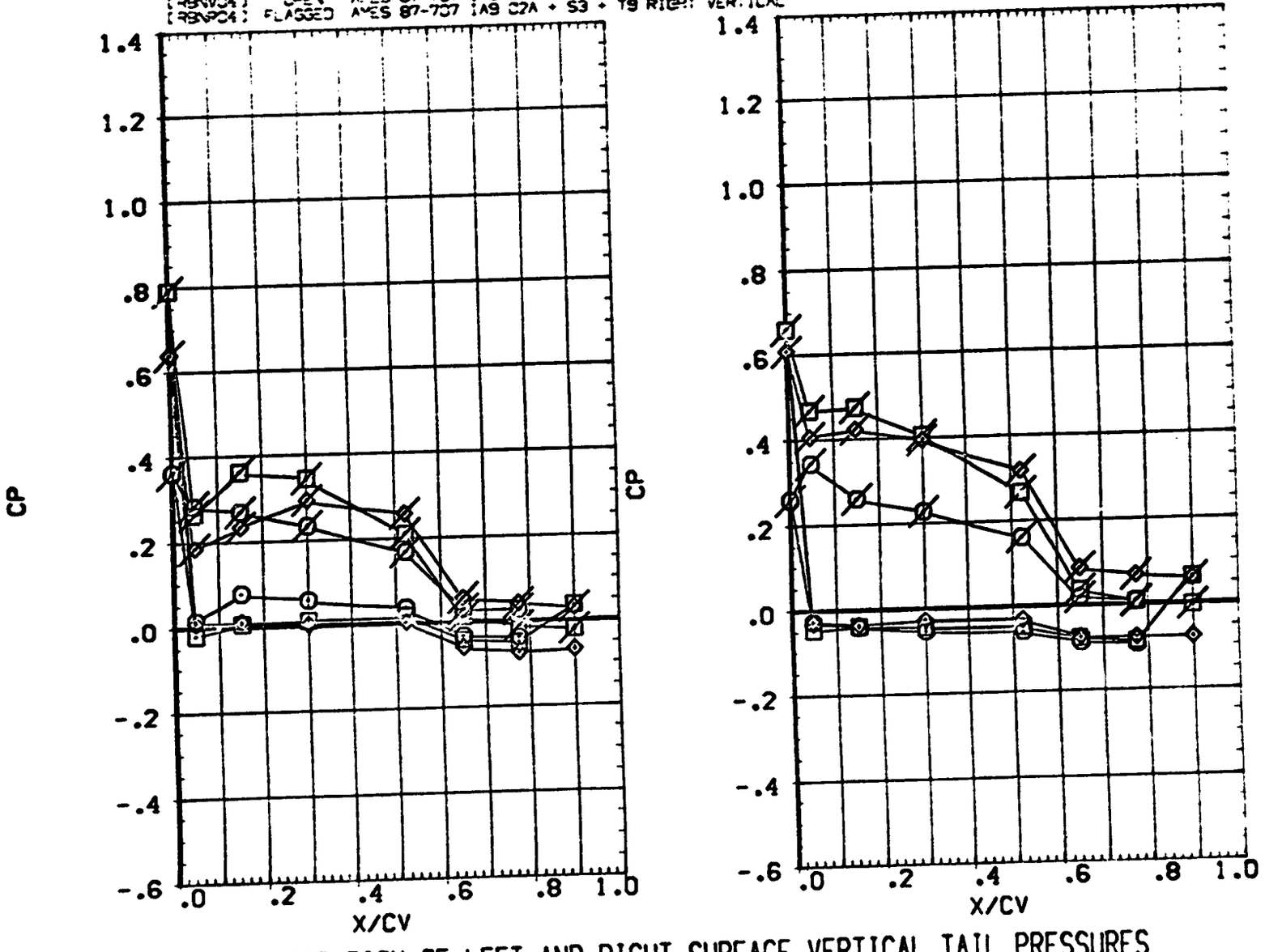
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	4.460	3.502
□	.316	8.870	
◇	.600		

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[RBNVO4]	OPEN	AMES 87-707 [A9 C2A + S3 + T9 LEFT VERTICAL
[RBNPO4]	FLAGGED	AMES 87-707 [A9 C2A + S3 + T9 RIGHT VERTICAL



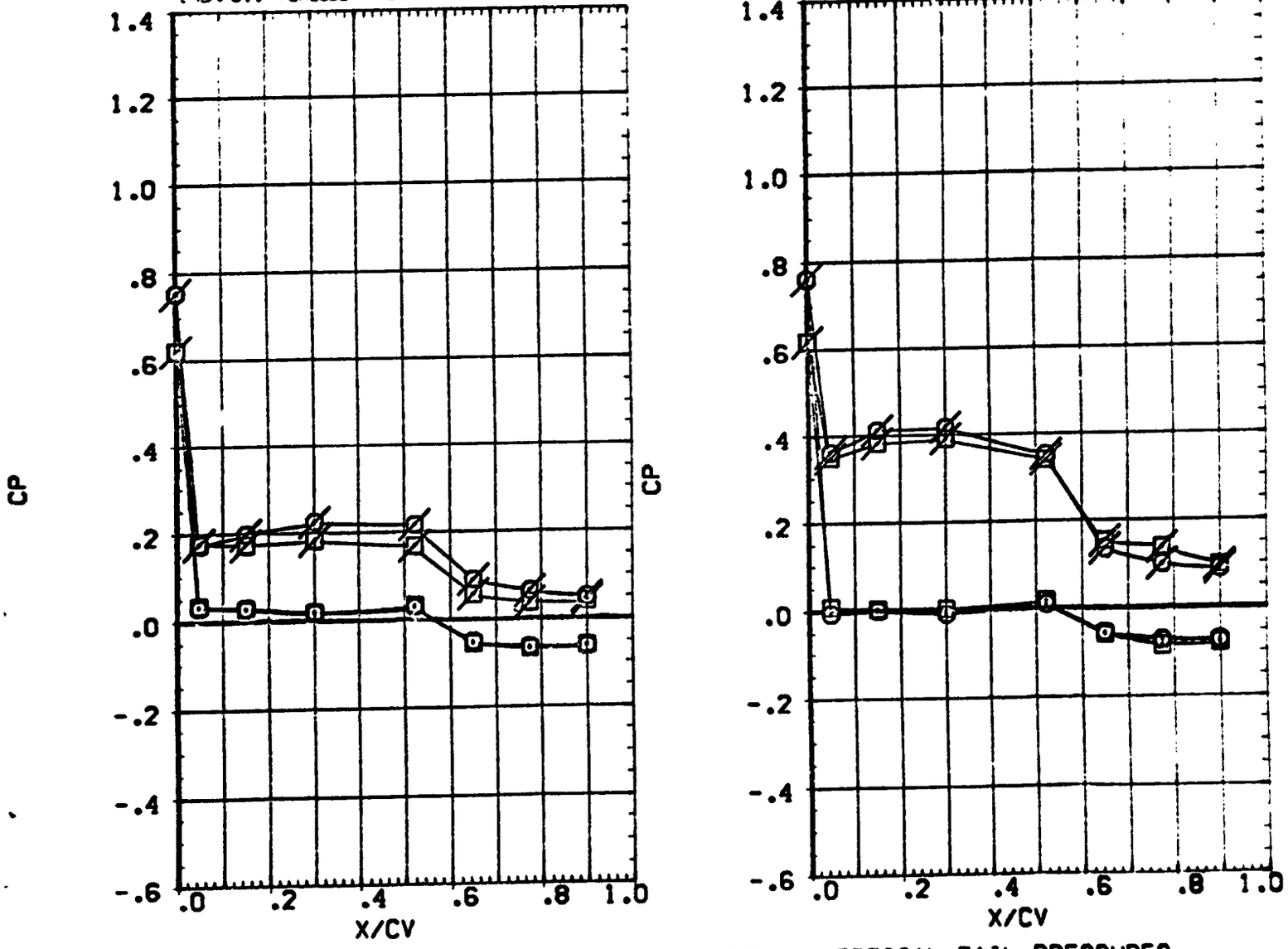
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA	MACH
	.840	4.460	3.502
	.925	8.870	

PARAMETRIC VALUES

ALPHAT	-4.000	SPDBRK	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RSNVC4)	OPEN	AMES 87-707 IA9 C2A + S3 + T9 LEFT VERTICAL
(RSNPC4)	FLAGGED	AMES 87-707 IA9 C2A + S3 + T9 RIGHT VERTICAL



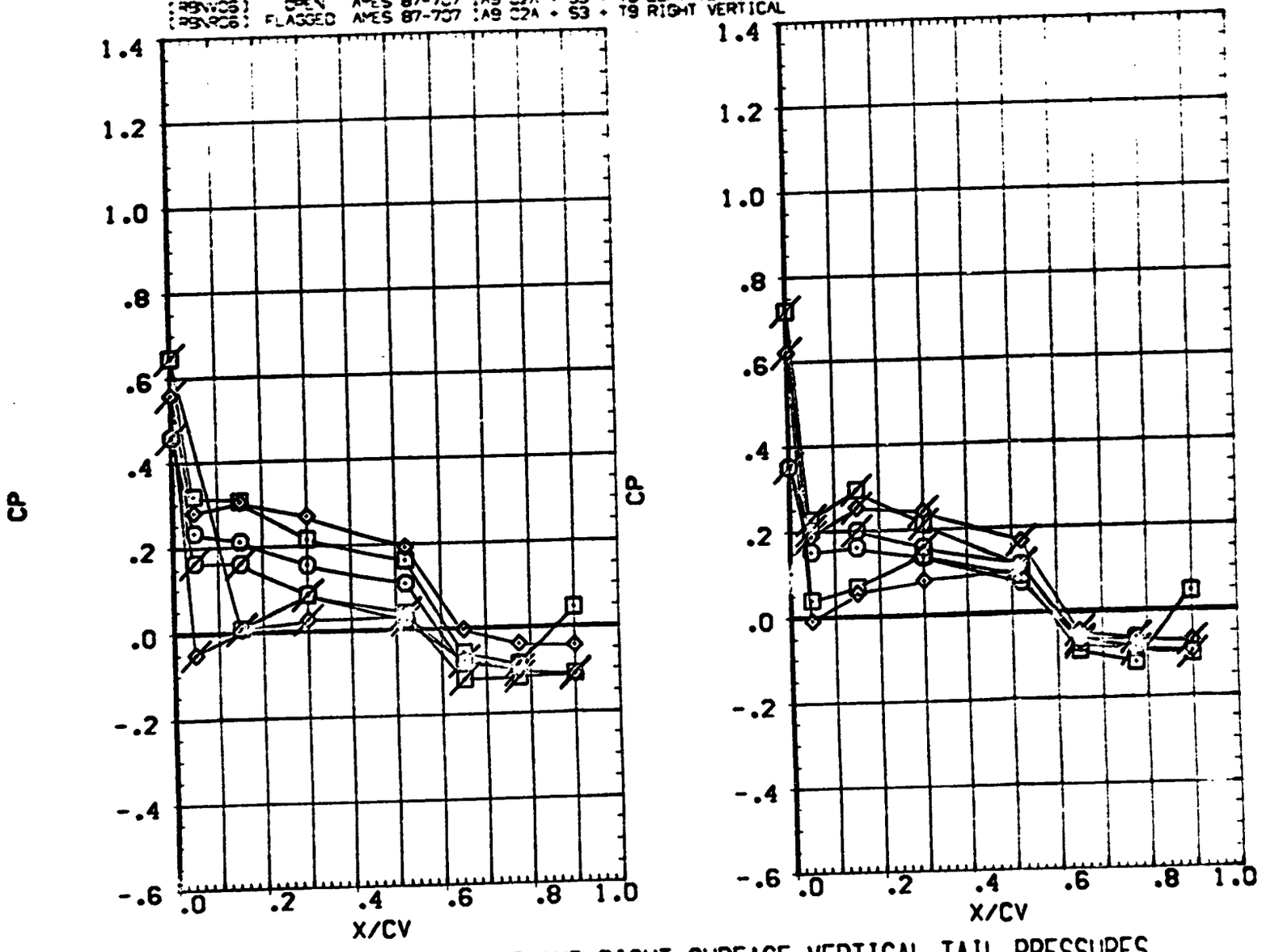
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETAT	MACH
○	.158	-4.190	2.498
□	.316	2.170	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	DBDYNC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RSNVCS)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(RSNVCS)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



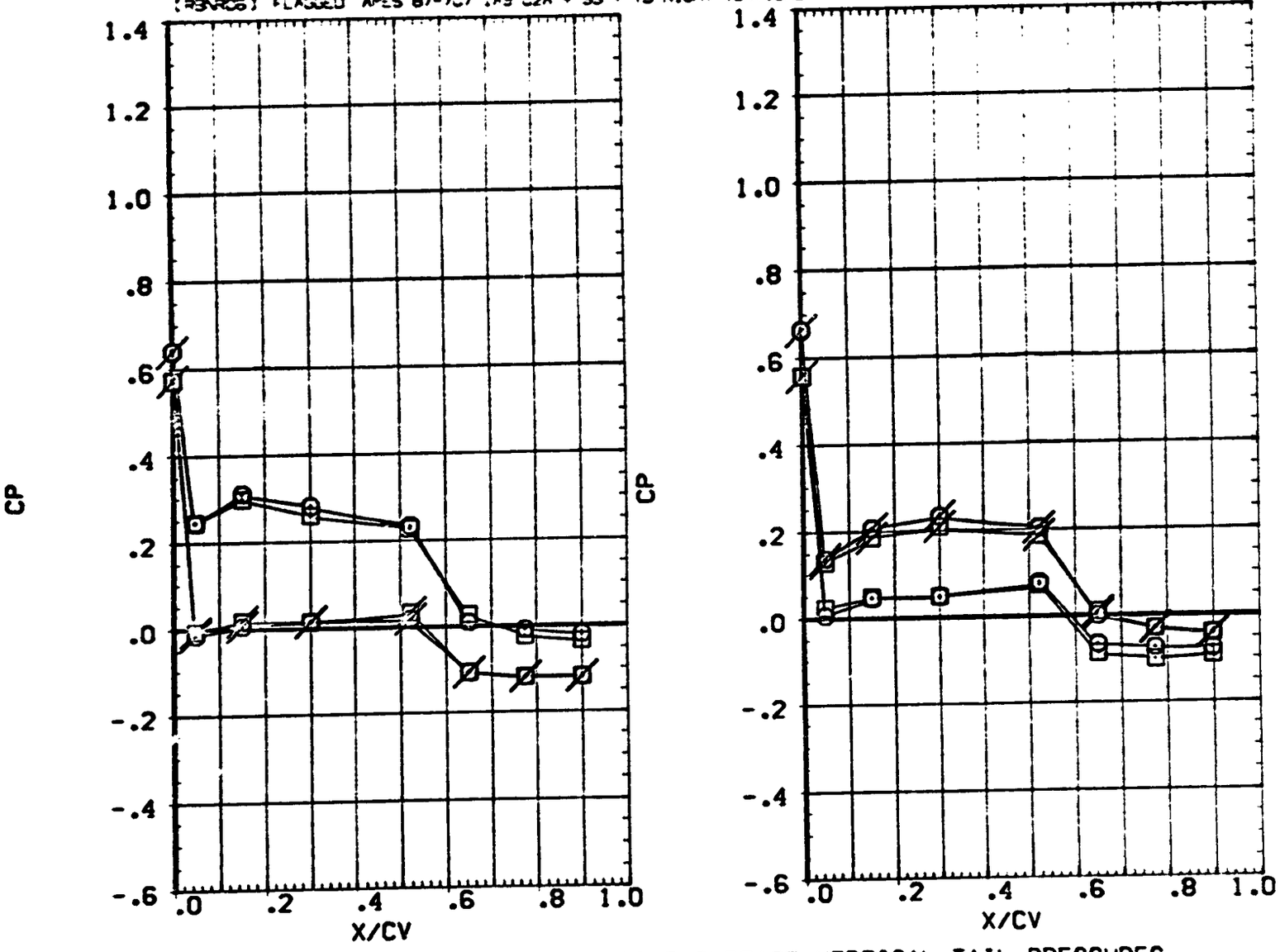
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETA	MACH
○	.840	-4.190	2.498
□	.925	2.170	

PARAMETRIC VALUES

ALPHA	.000	DBY/C	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNVCS)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(RBNRCS)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



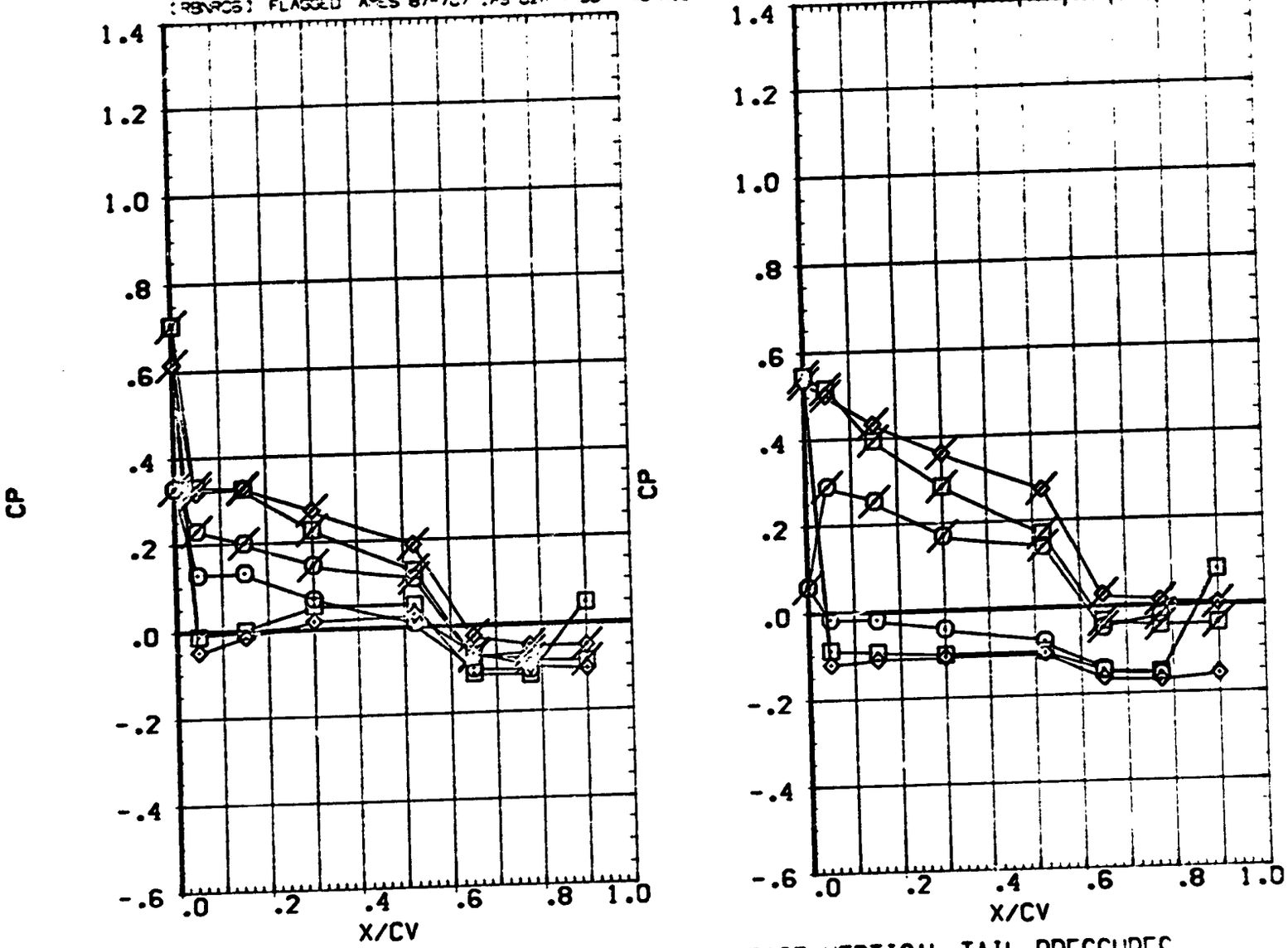
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	X/BV	BETAT	MACH
○	.158	4.290	2.498
□	.316	8.540	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	SB:NC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RSNVCS)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(RSNVCS)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



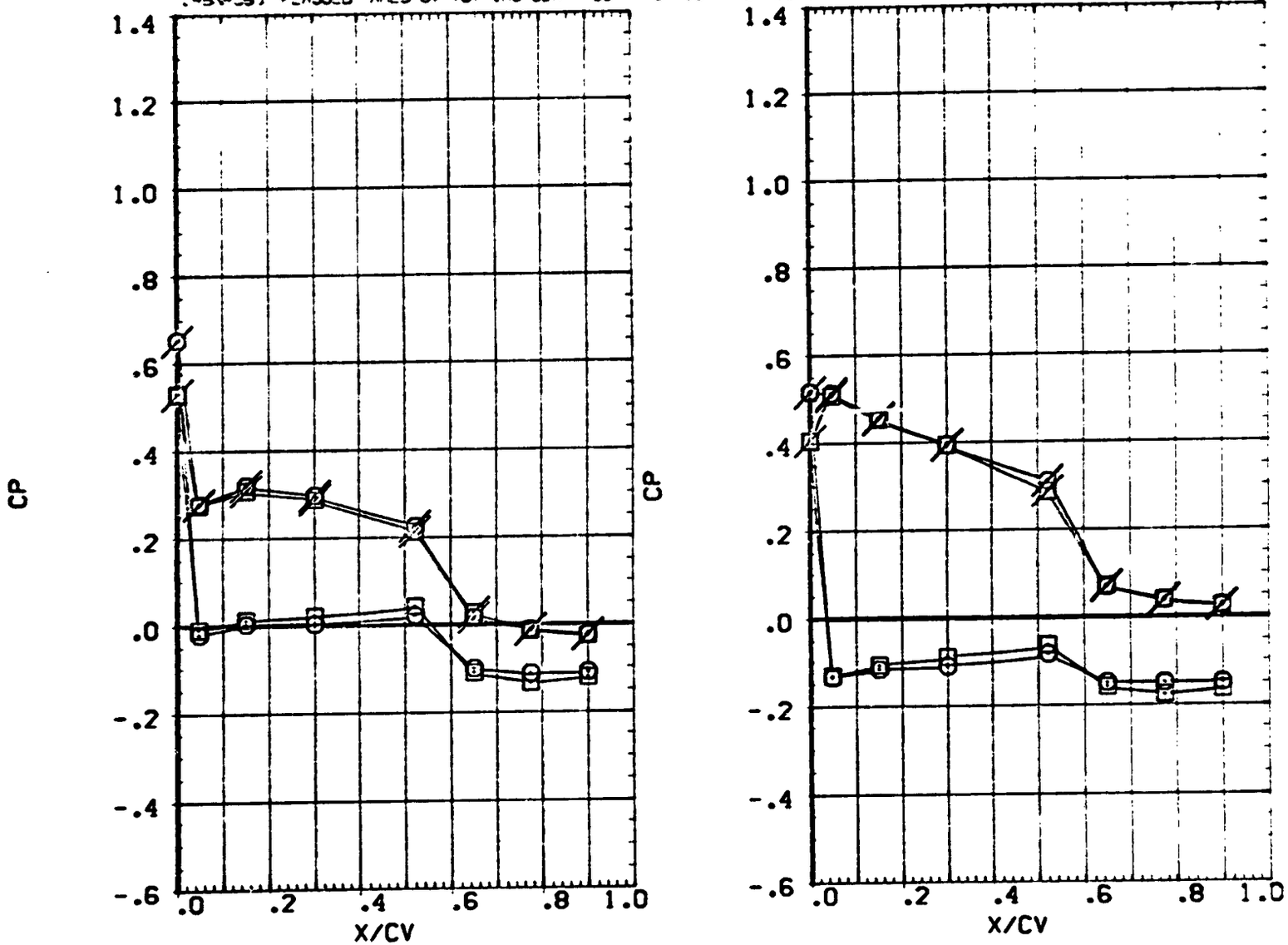
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B/	BETA	MACH
○	.840	4.250	2.498
□	.975	8.540	

PARAMETRIC VALUES

ALPHAT	.0000	DELTA	.500
RUDDER	.0000	ELEV	.000
RUDFLR	.0000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(99VCS)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(99VPS)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



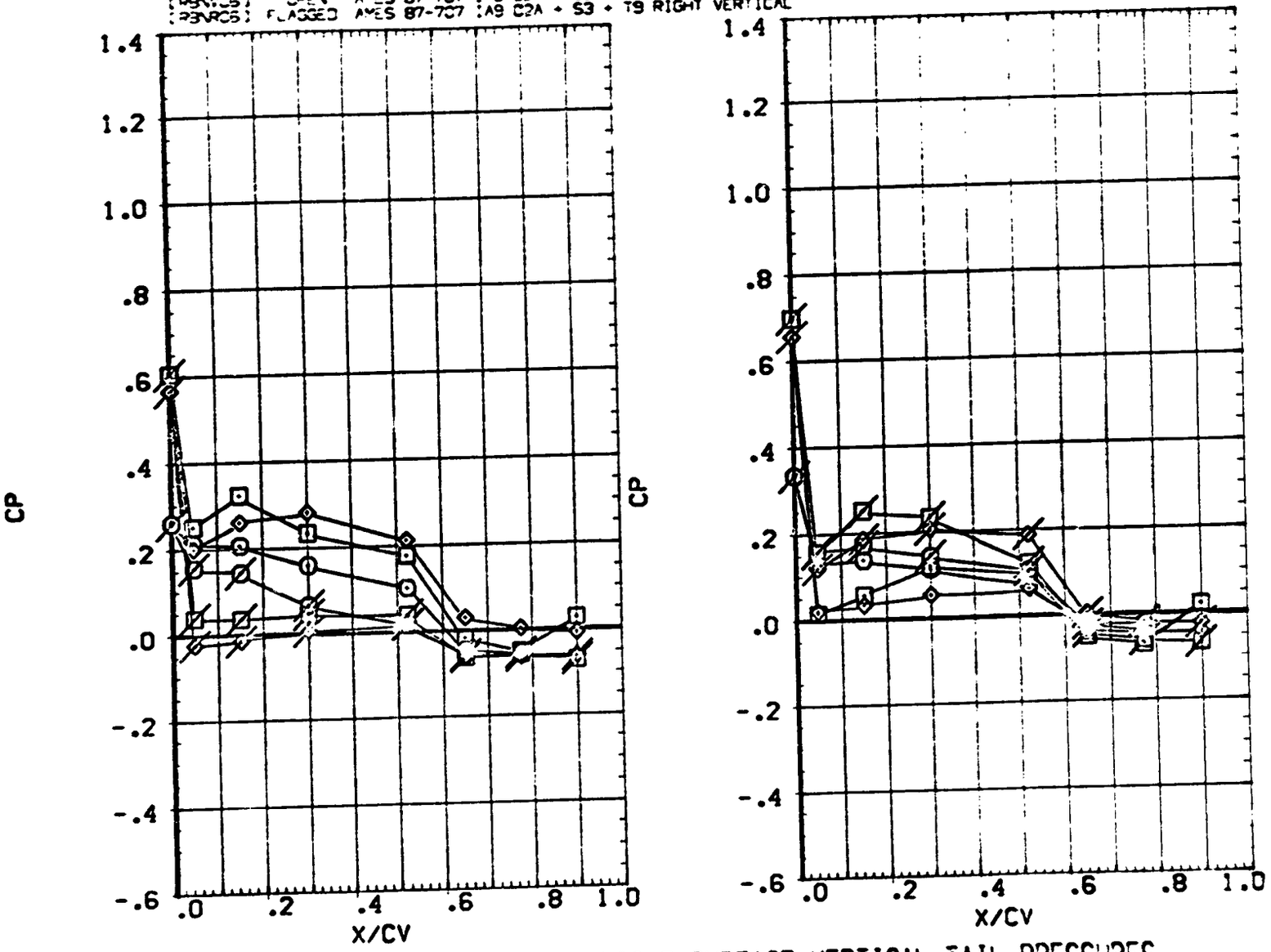
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETA	MACH
□	.158	-4.270	2.999
○	.316	2.210	
◇	.632		

PARAMETRIC VALUES

ALPHA	.000	DPSINC	.500
RUDDER	.000	ELEVON	.000
ROLLER	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PSNVDS)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(PSNRDS)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL

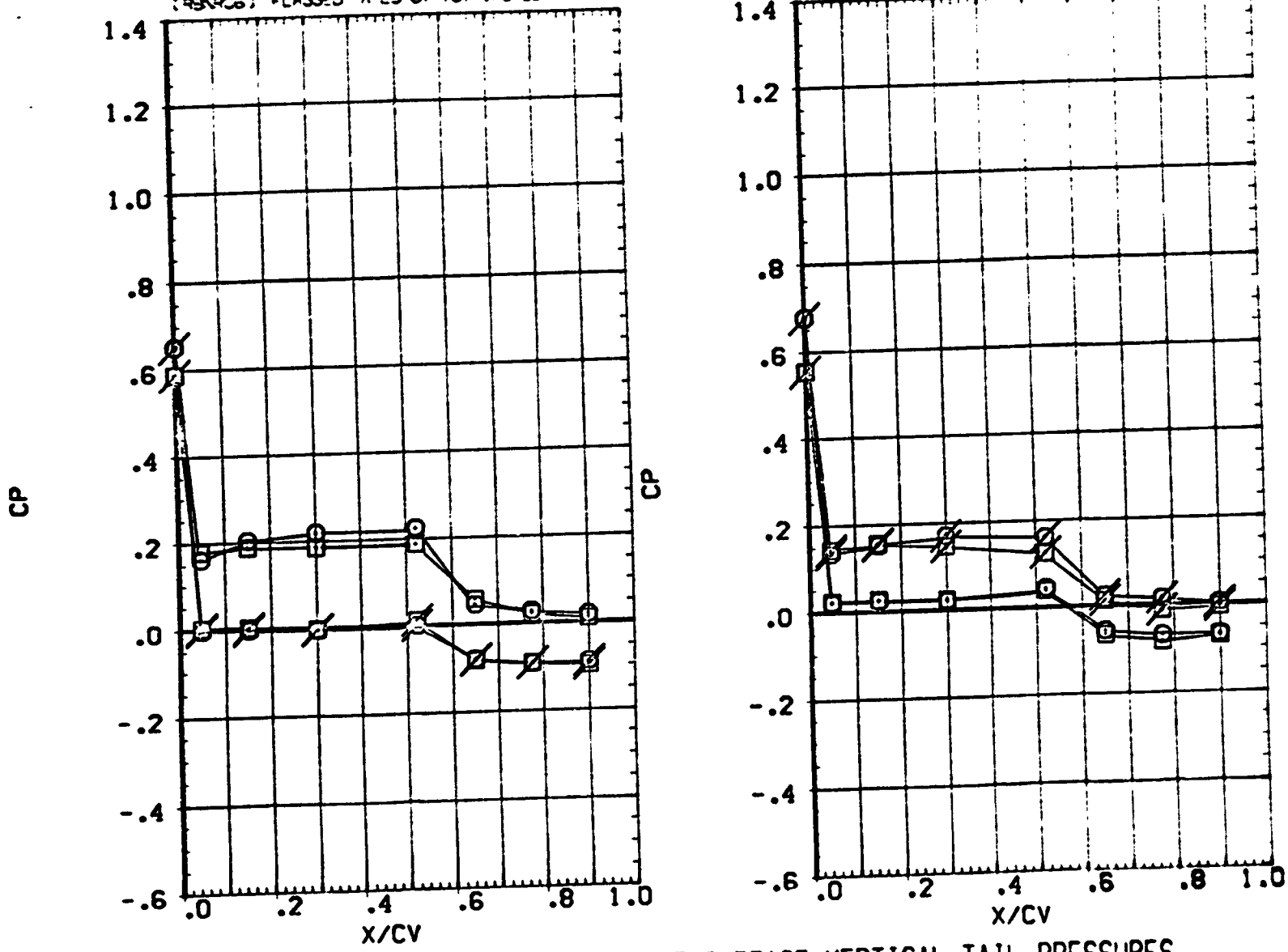


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETA	MACH
○	.840	-4.270	2.999
□	.925	2.210	

ALPHAT	[illegible]	[illegible]	[illegible]
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
RSNVDS	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
RSNRDS	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



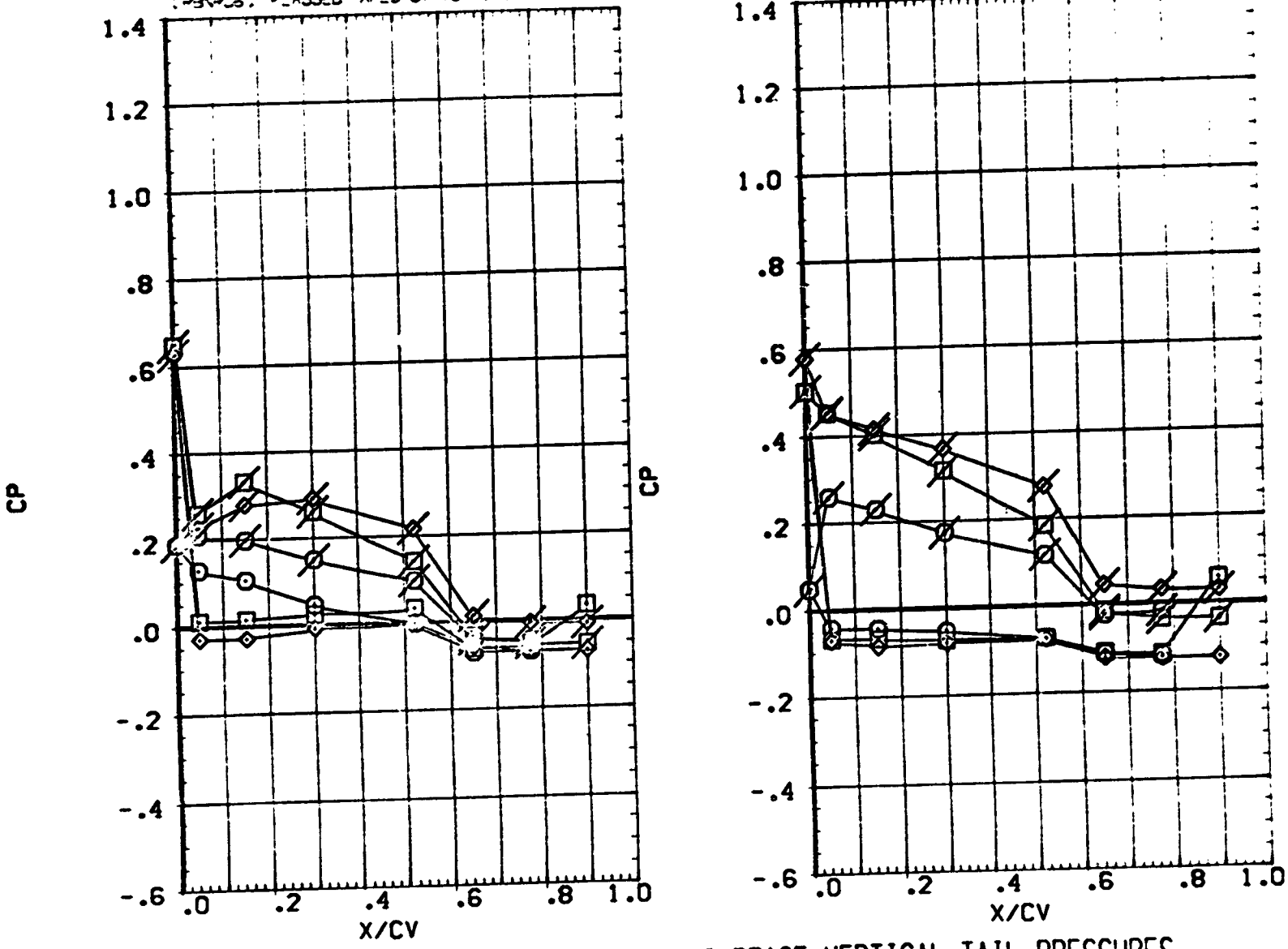
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETA	MACH
○	.158	4.370	2.999
□	.316	8.695	
◇	.600		

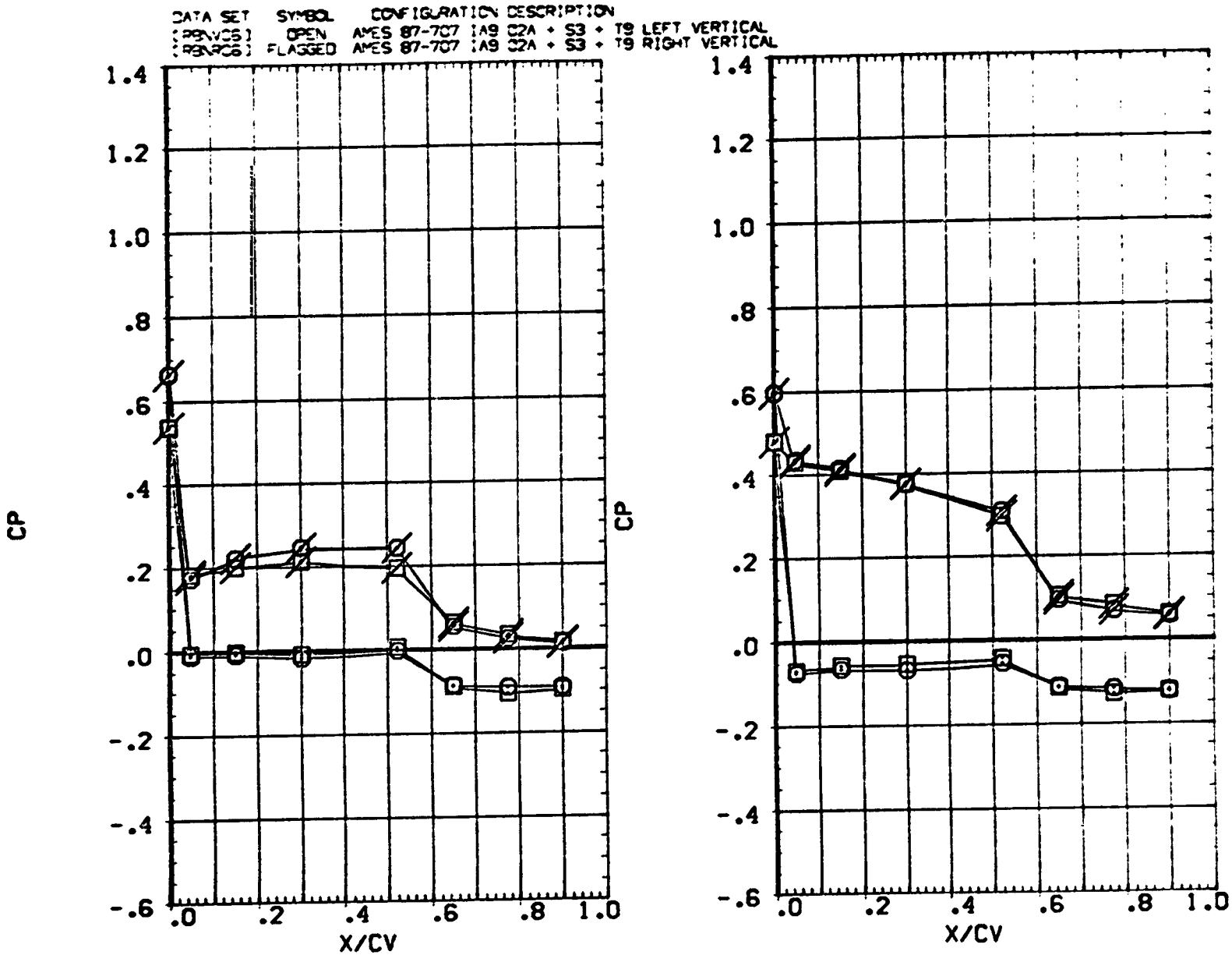
PARAMETRIC VALUES

ALPHAT	.000	SPOILR	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PSNVCS)	OPEN	AMES 87-707 (A9 C2A + S3 + T9 LEFT VERTICAL
(PSNPCS)	FLAGGED	AMES 87-707 (A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



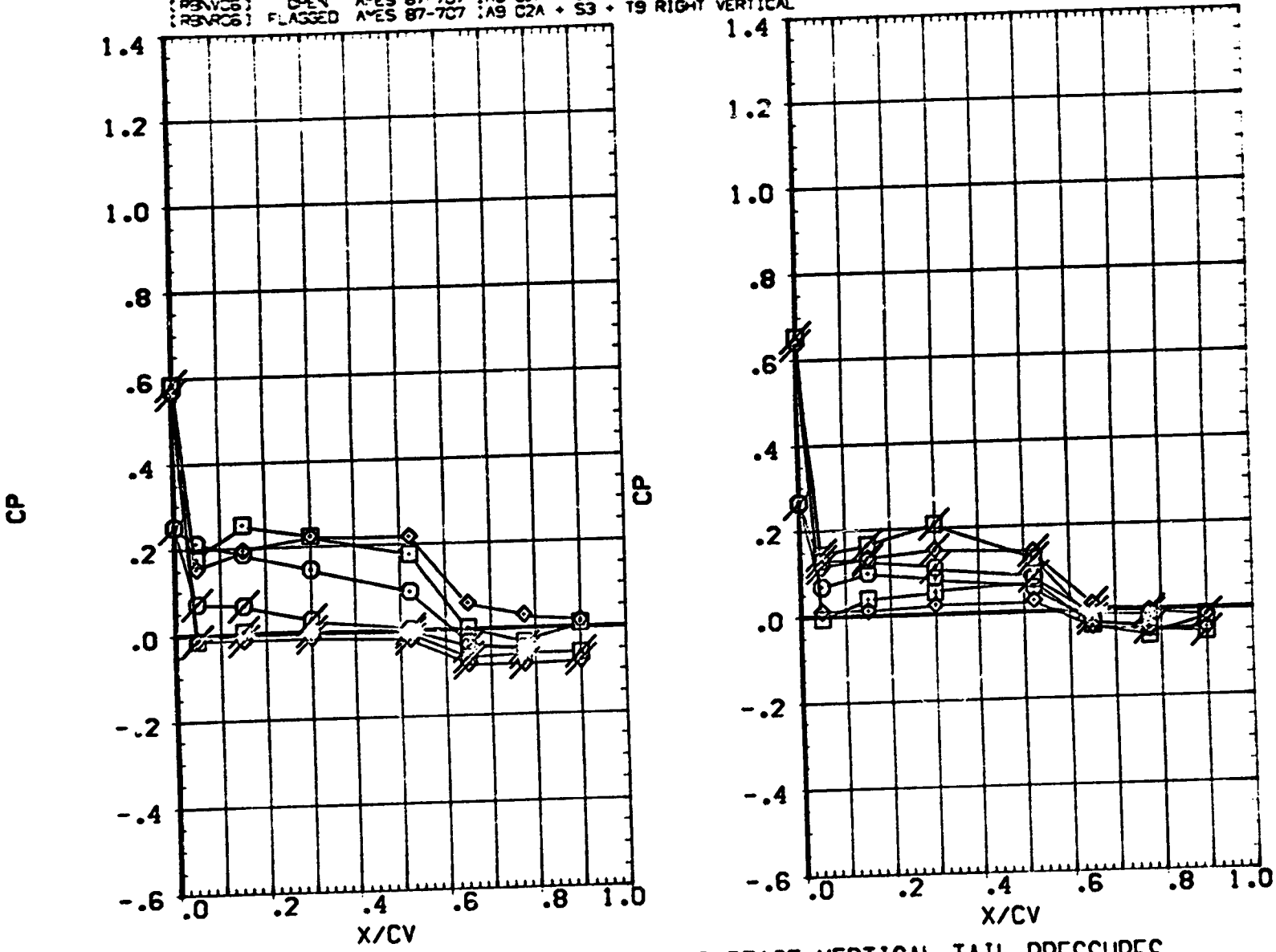
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.340	3.502
□	.316	2.260	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	ORIENC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RSNVCG)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(RSNVCG)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



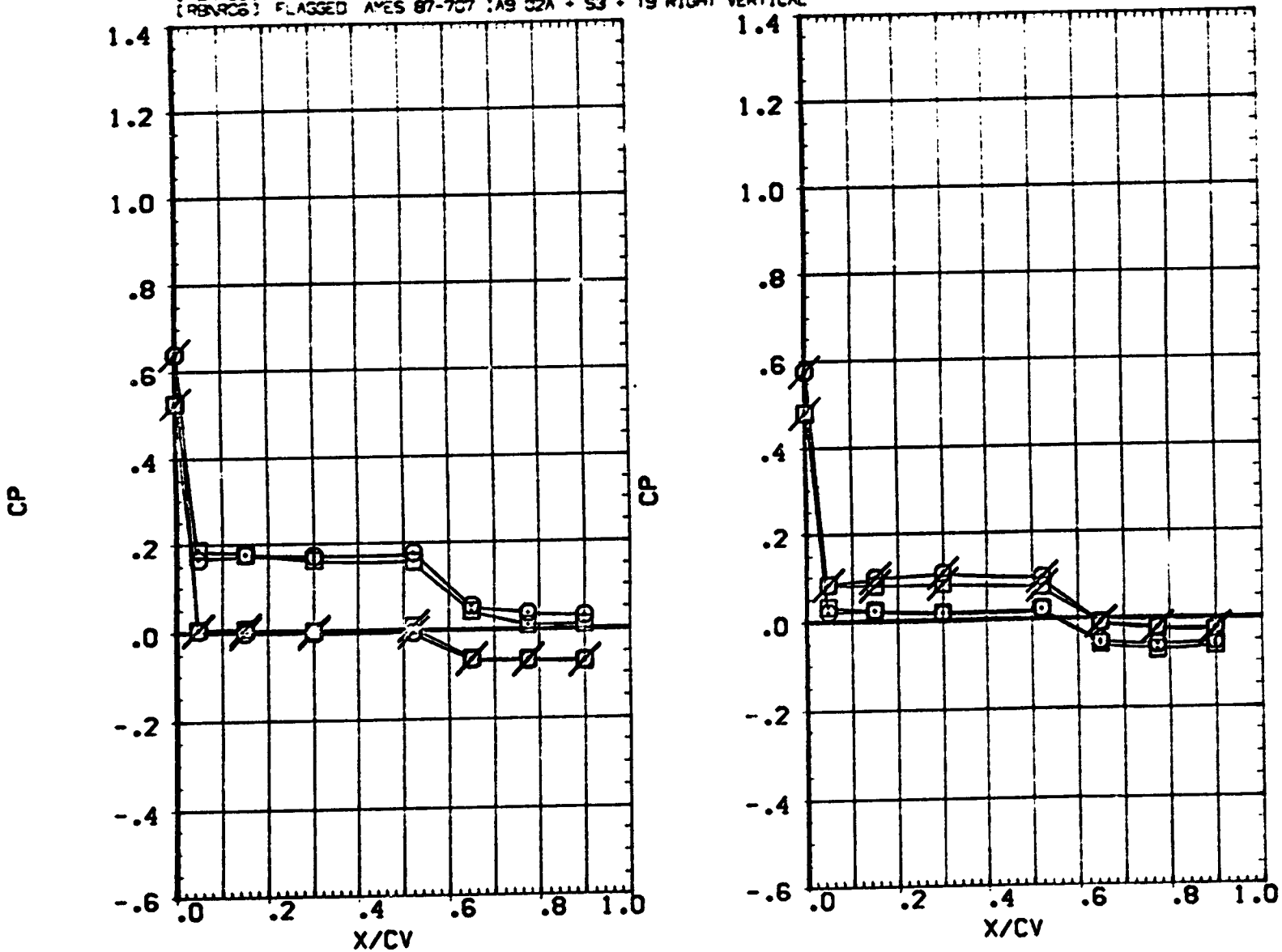
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA	MACH
○	.840	4.340	3.502
□	.935	2.760	

PARAMETRIC VALUES

ALPHA	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNVCG)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(RBNRCG)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



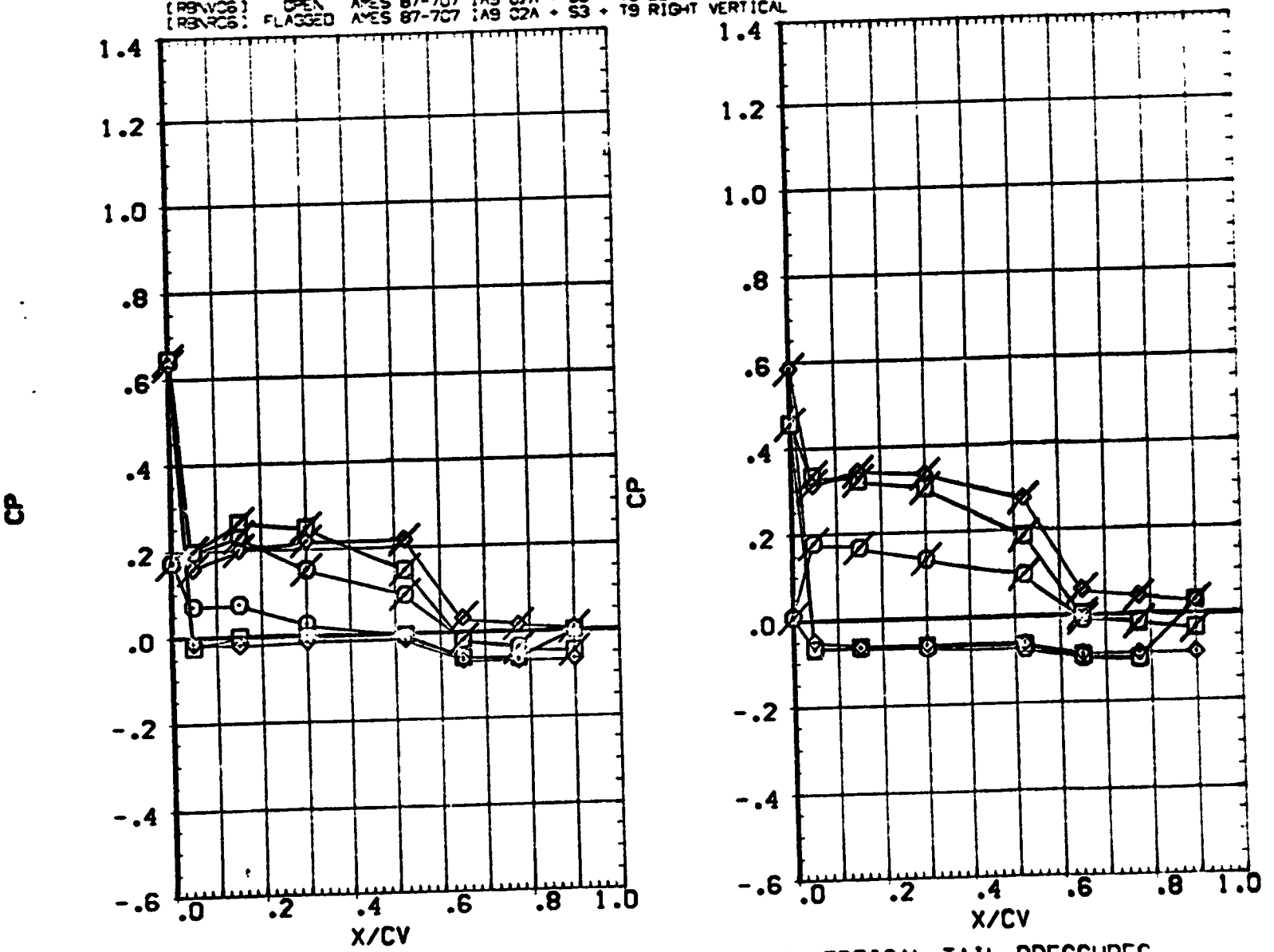
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	4.450	3.502
□	.316	8.850	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	DSBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBNVCS) OPEN AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(RBNVCS) FLAGGED AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETAT	MACH
[illegible]	.840	4.450	3.502
[illegible]	.925	8.850	

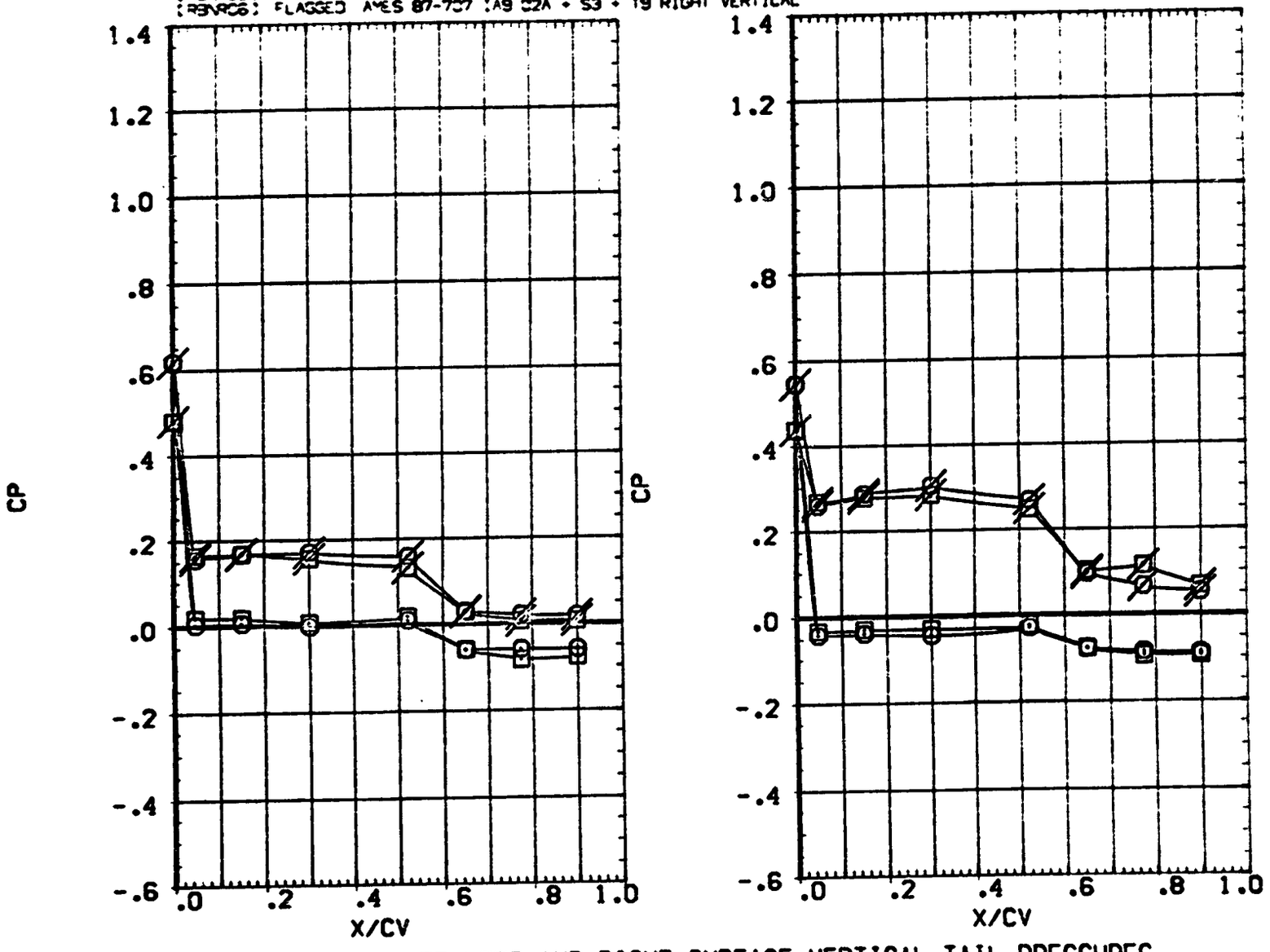
PARAMETRIC VALUES

ALPHAT	.000	DBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBNVC6) OPEN AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL

(RBNRC6) FLAGGED AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



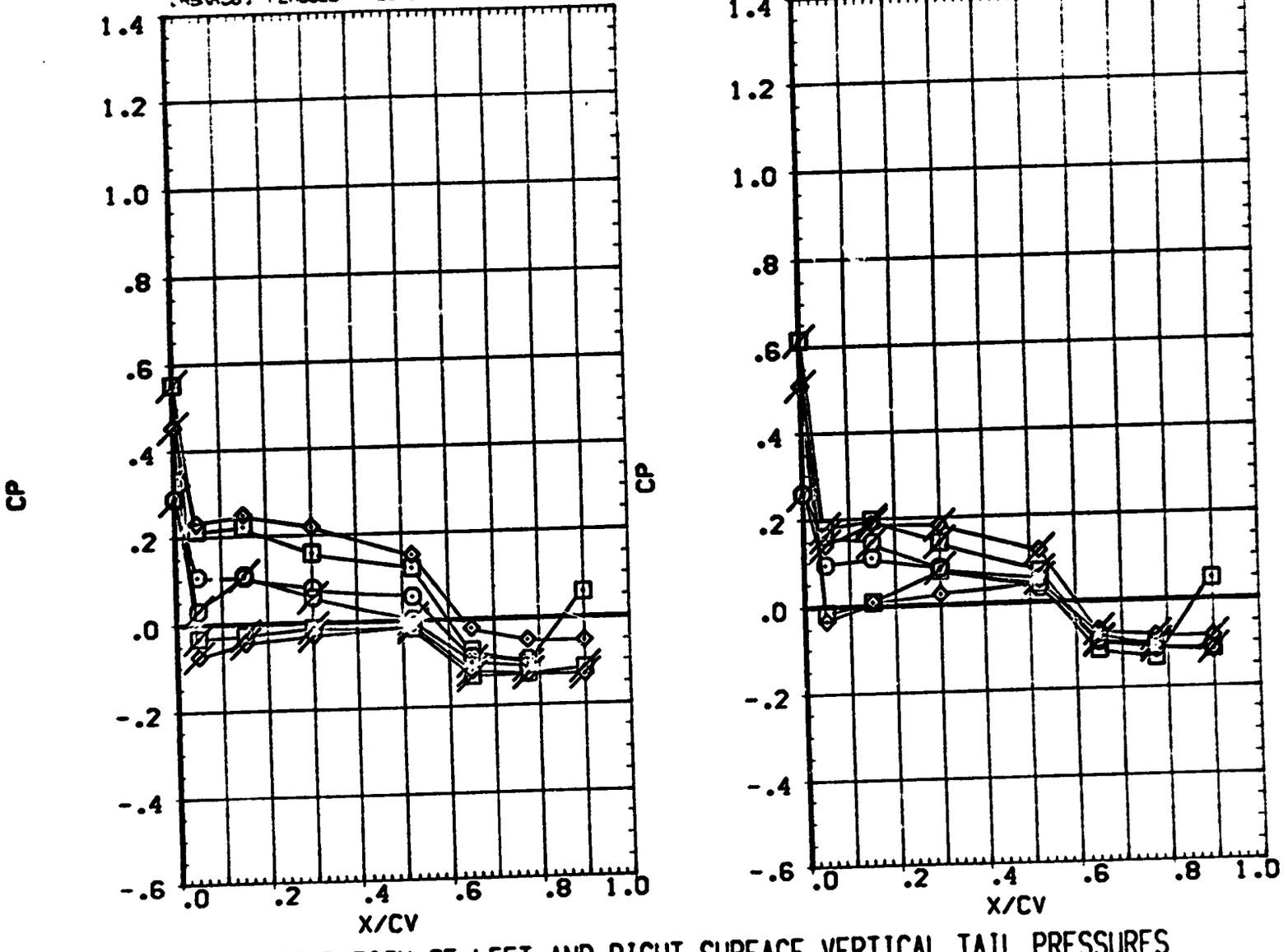
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B/	BETAT	MACH
□	.158	-4.190	2.498
○	.316	2.170	
◇	.600		

PARAMETRIC VALUES

ALPHAT	4.000	DRIVNC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

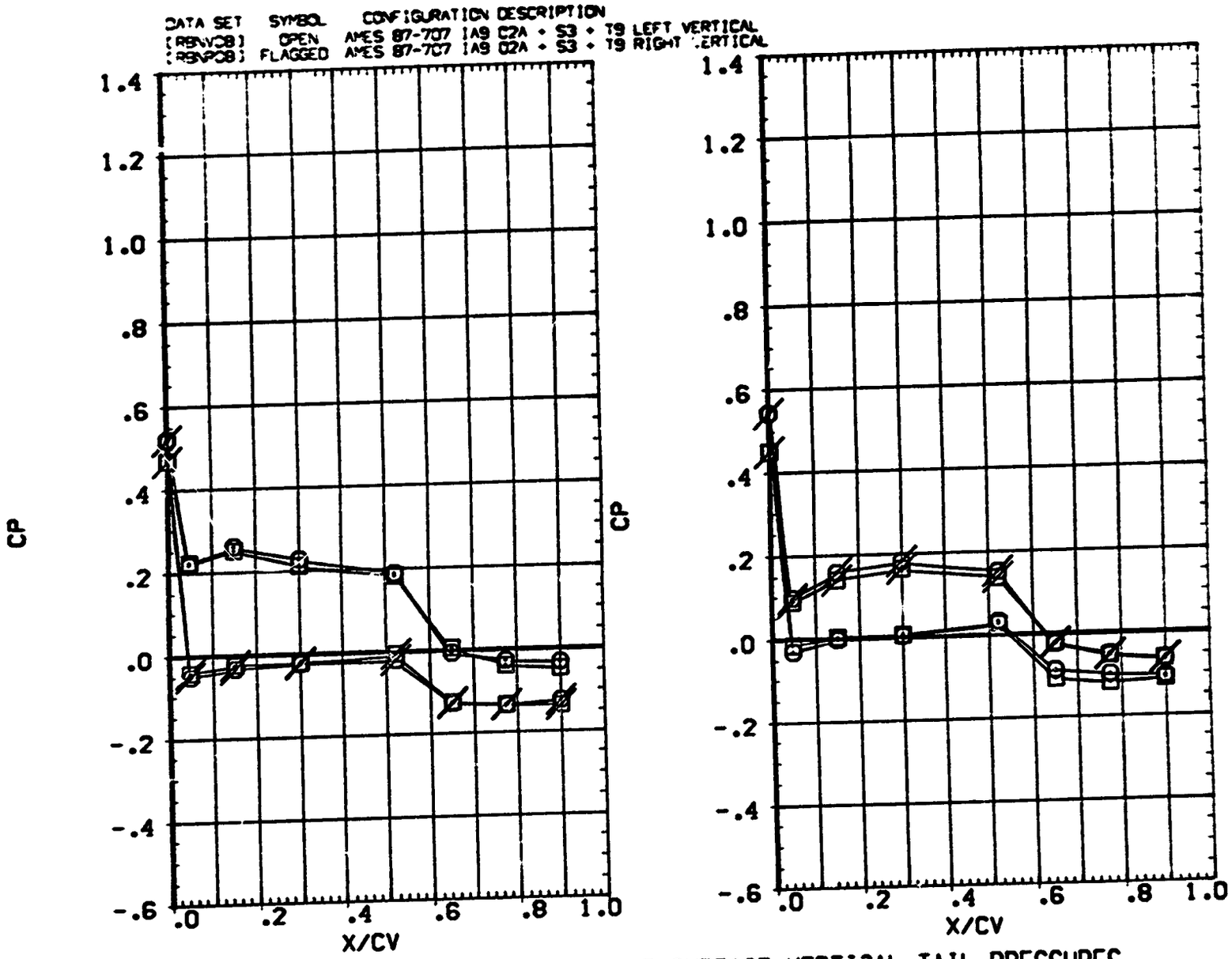
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNVOB)	OPEN	AMES 87-707 1A9 C2A + S3 + T9 LEFT VERTICAL
(RBNVOB)	FLAGGED	AMES 87-707 1A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA	PHI
○	.840	-4.190	2.498
□	.925	2.170	

ALPHA	4.111		
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



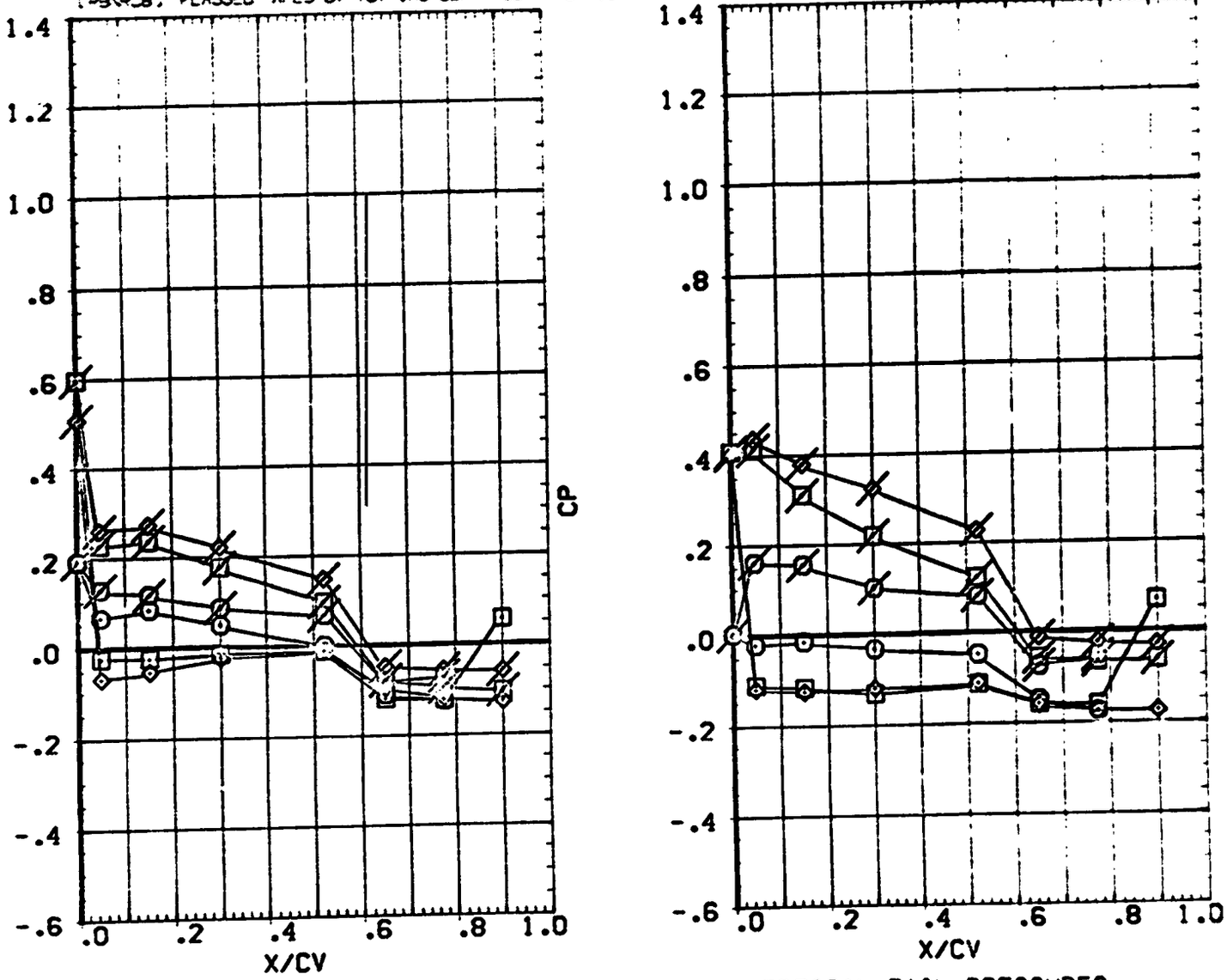
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B/	BETAT	MACH
○	.158	4.300	2.498
□	.316	8.550	
◇	.600		

PARAMETRIC VALUES

ALPHAT	4.000	SPOILER	.500
RUDDER	.000	ELEVON	.000
RUDDER	.000		

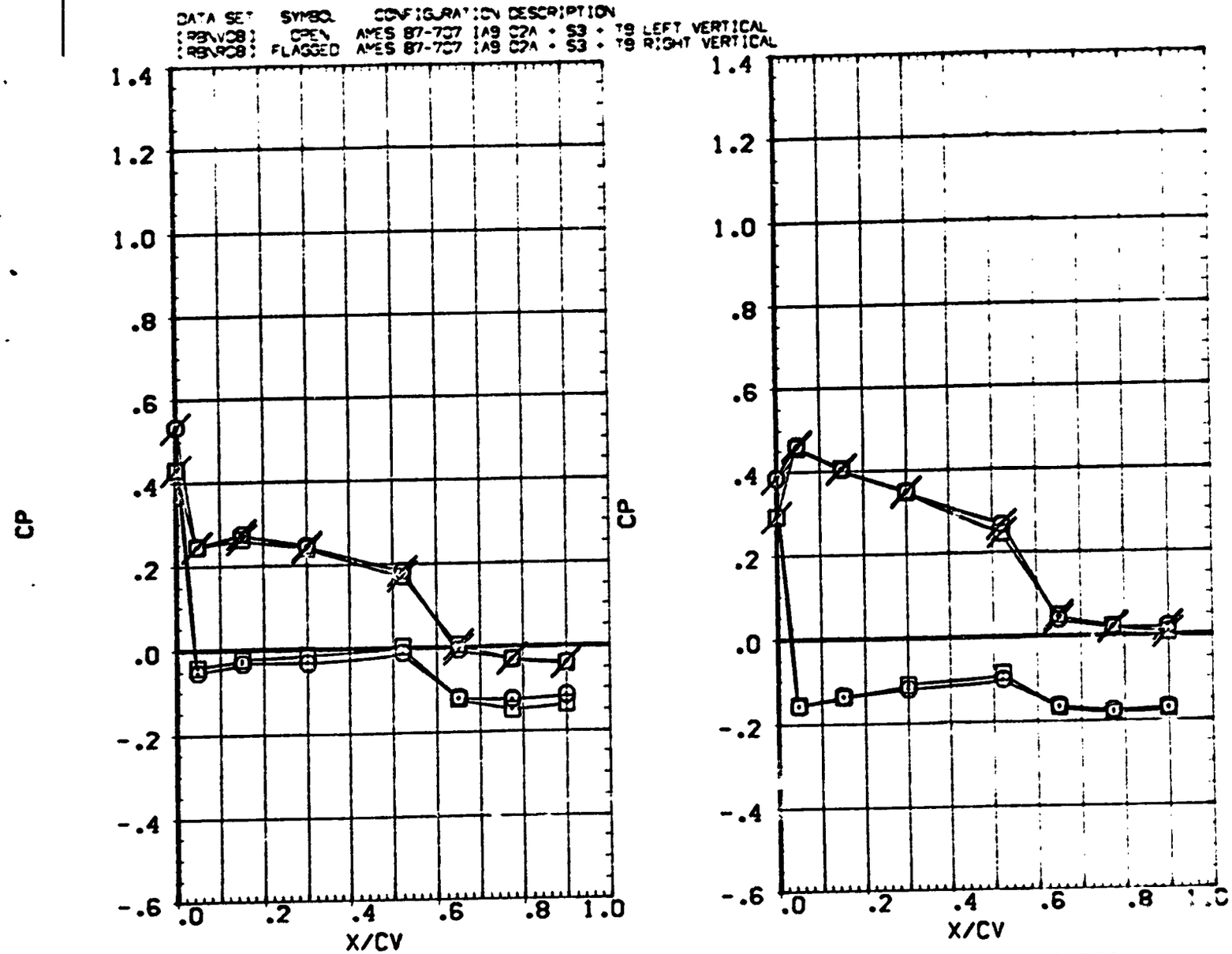
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PSNVCB)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(PSNRCB)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



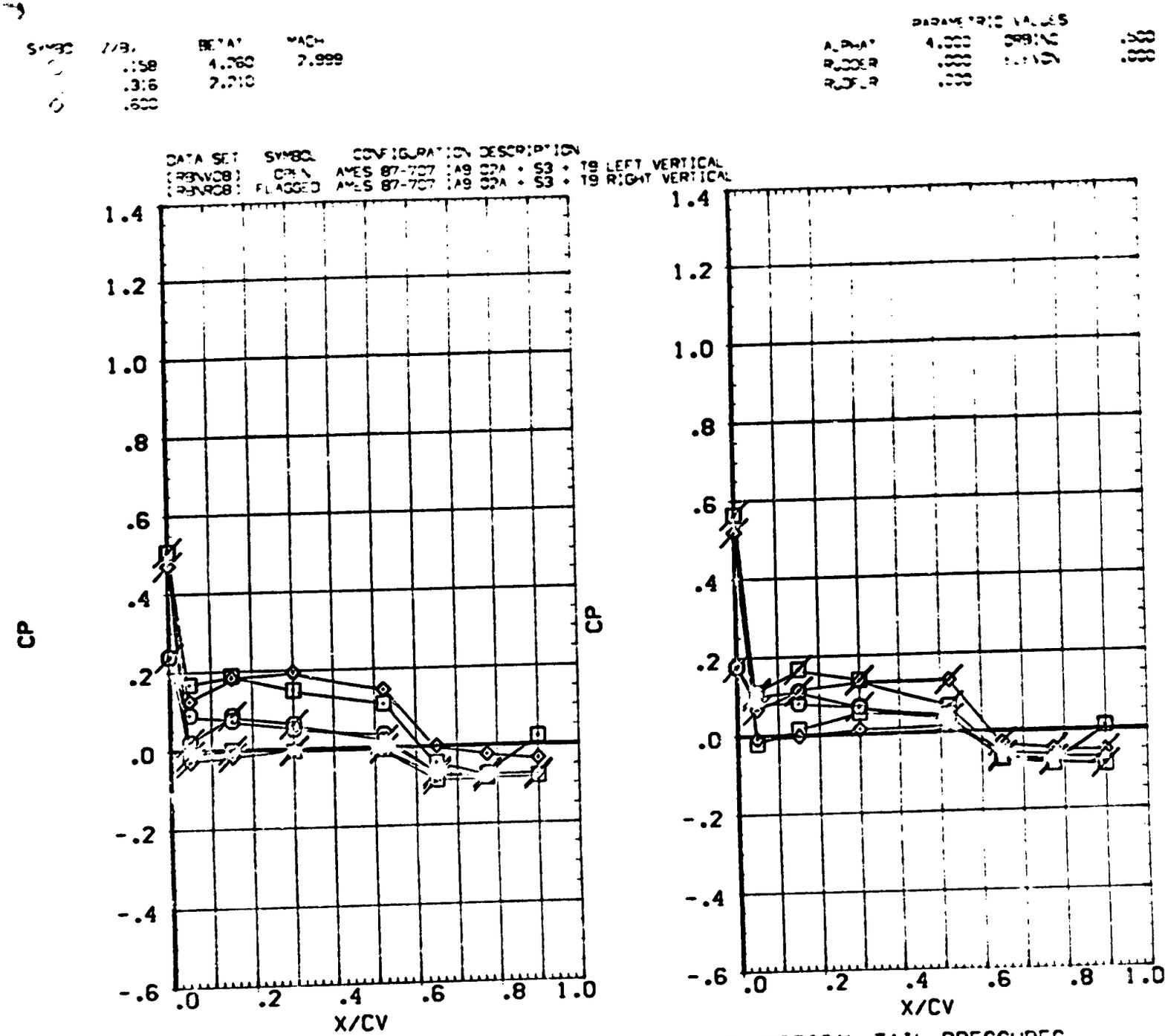
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

	.840	4.300	2.498
	.975	8.550	

RUDDER	.000	ELEVON	.000
ROLLR	.000		



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



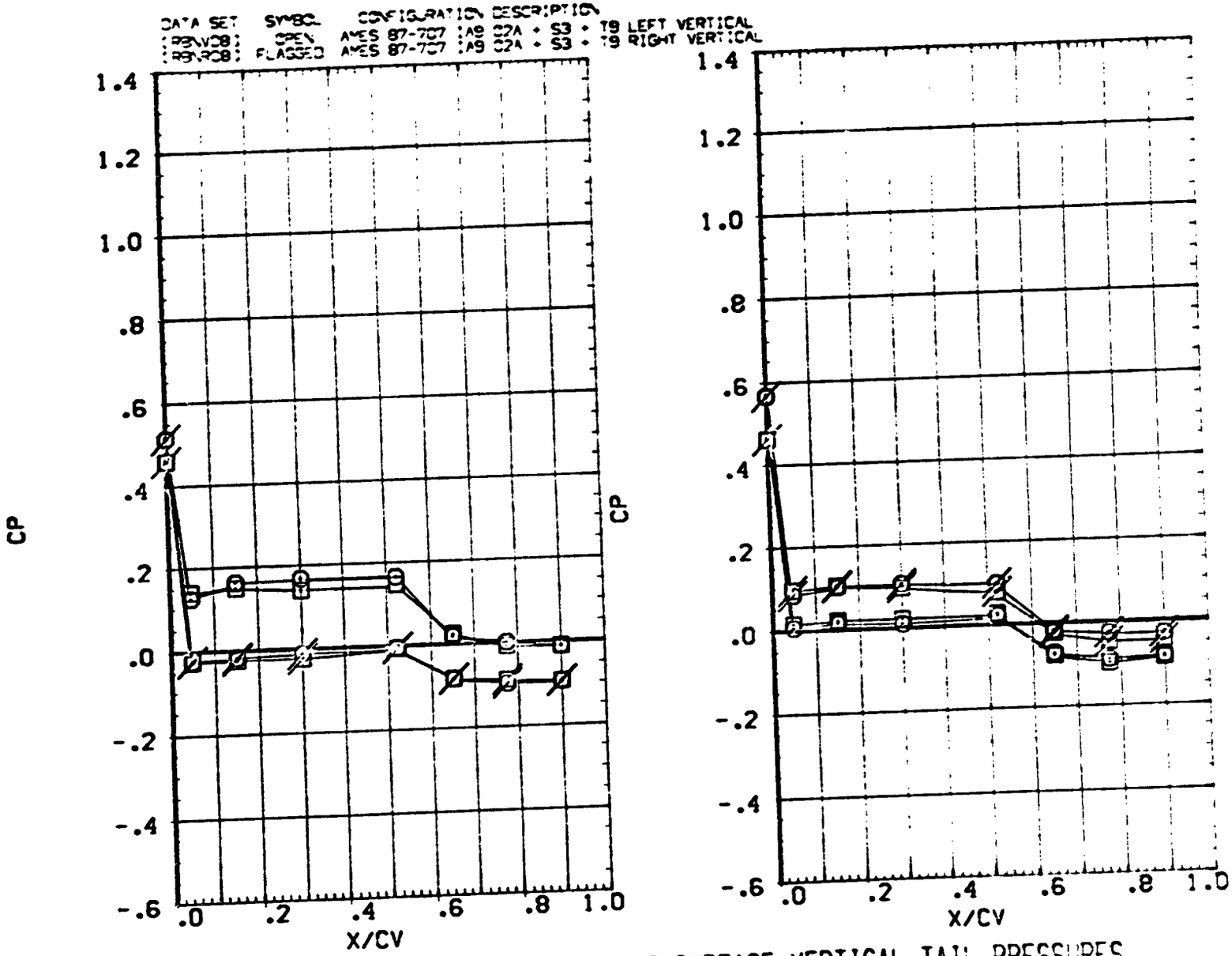
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	X/B	BETA	MACH
○	.840	-4.260	2.999
□	.975	2.210	

PARAMETRIC VALUES

ALPHA	4.000	SPEC	.500
RUDDER	.000	ELEVON	.000
RUDDER	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
RSNVOB	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
RSNVOB	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



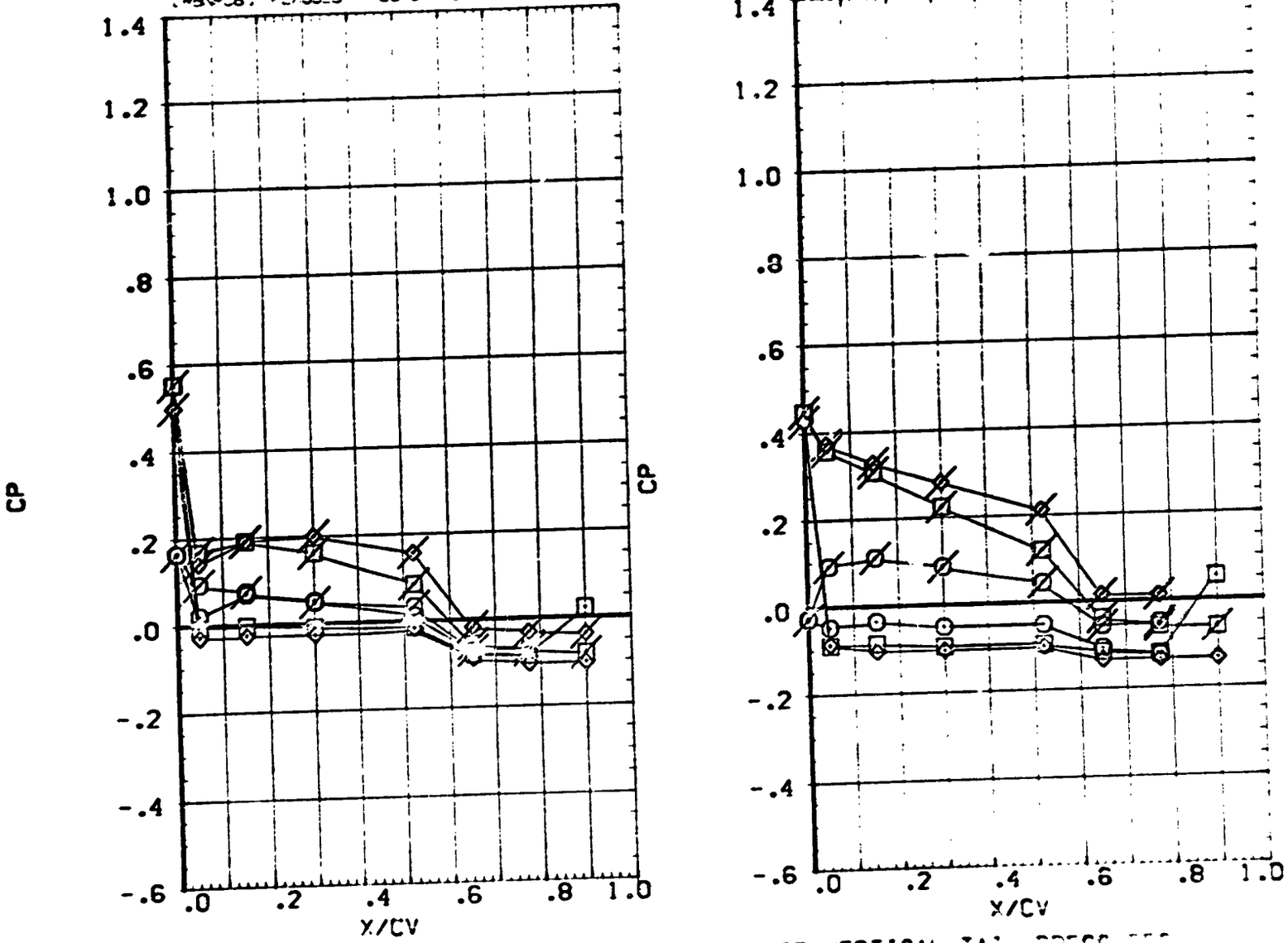
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B/	BETAT	MACH
○	.158	4.370	2.999
□	.316	8.700	
◇	.600		

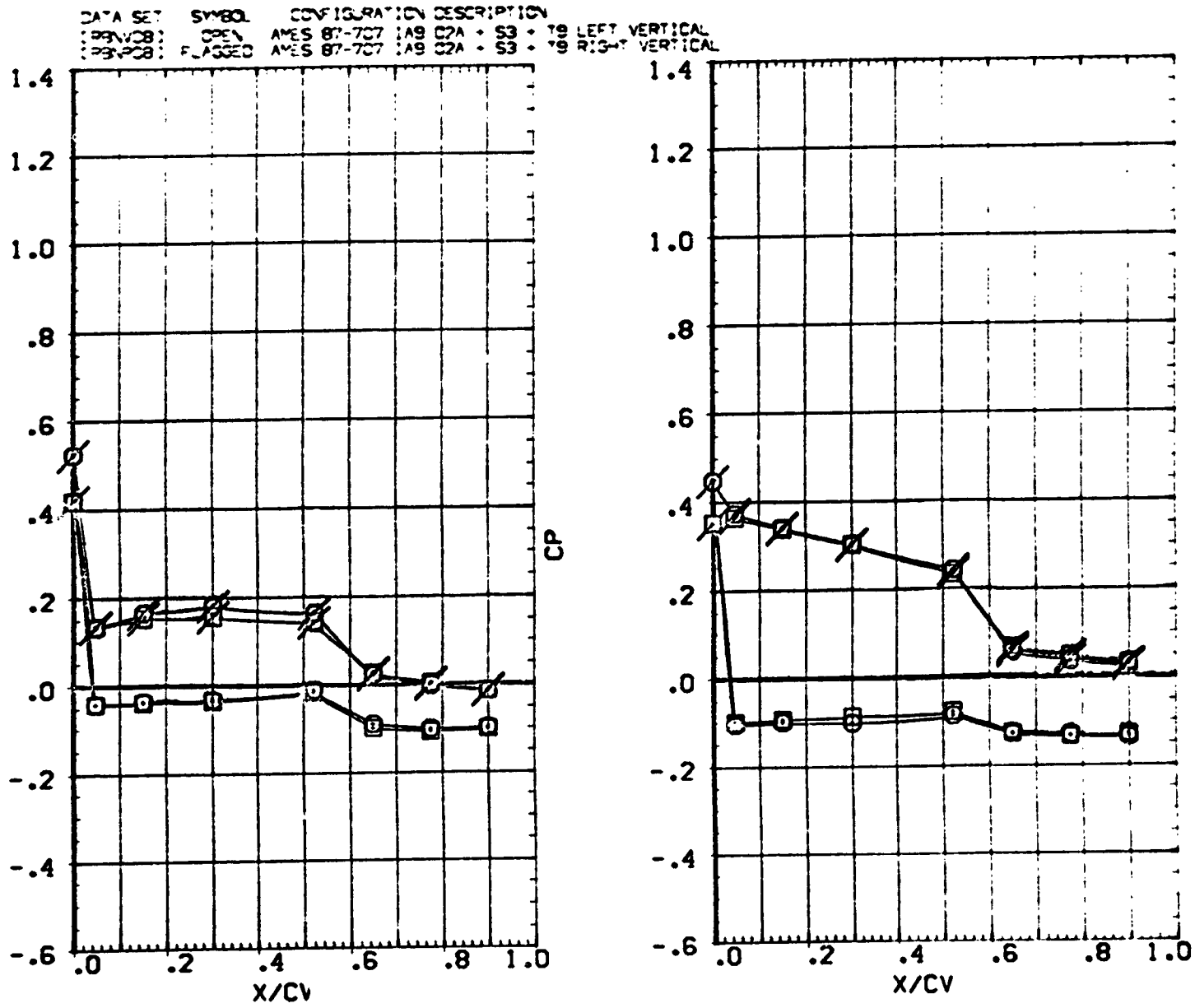
PARAMETRIC VALUES

ALPHAT	4.000	DBRINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

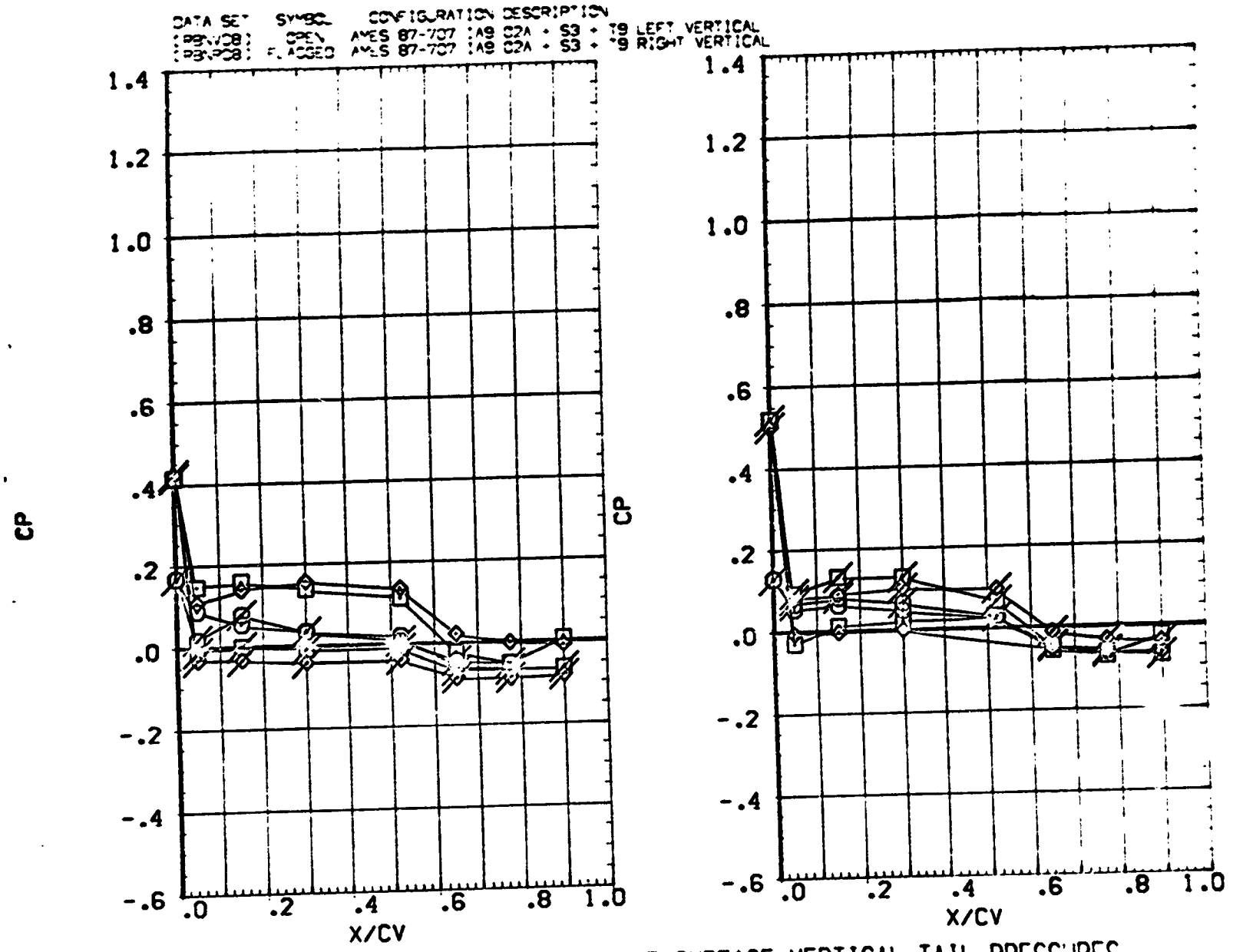
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PENVOB)	OPEN	AMES 87-707 (A9 C2A + S3 + T9 LEFT VERTICAL
(PENPOB)	FLAGGED	AMES 87-707 (A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

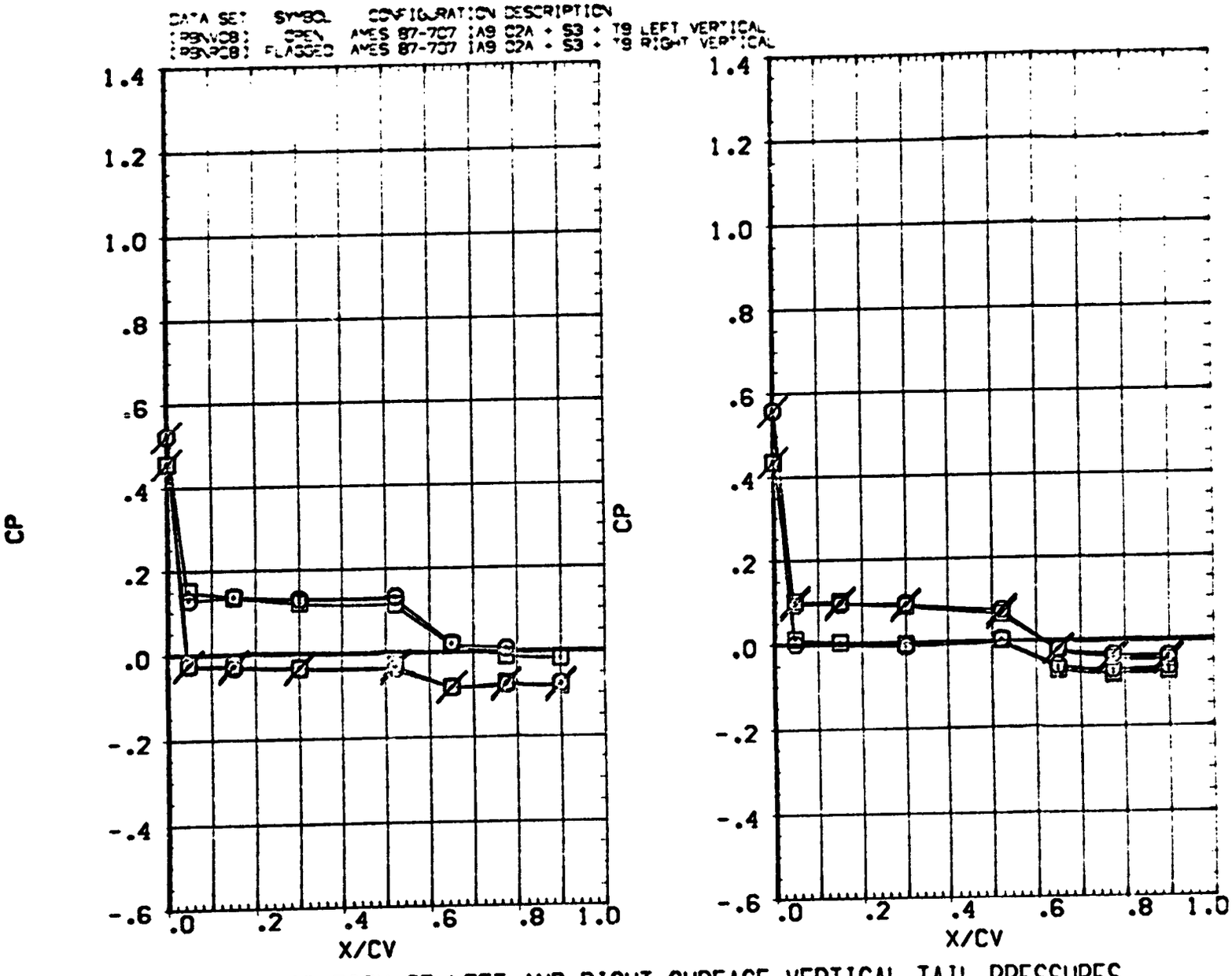


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

.840 -4.330 3.502
.925 2.760

RUDDER .000 ELEVON .000
RUDFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
[RBNVCB] OPEN AMES 87-707 IA9 02A + S3 + T9 LEFT VERTICAL
[RBNRCB] FLAGGED AMES 87-707 IA9 02A + S3 + T9 RIGHT VERTICAL



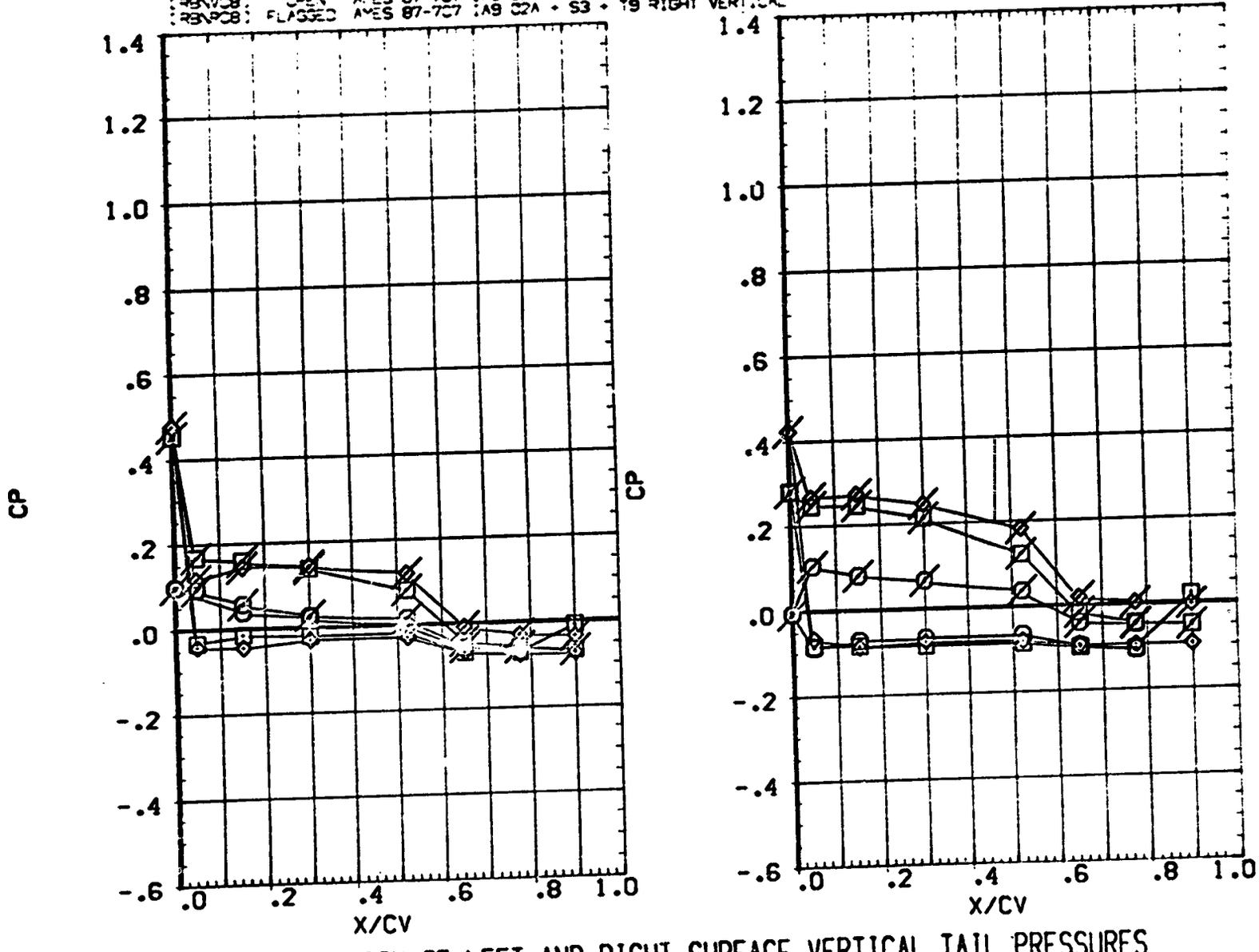
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA	MACH
○	.158	4.460	3.502
□	.316	8.860	
◇	.600		

PARAMETRIC VALUES

ALPHAT	4.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
RBNVDB	OPEN	AMES 87-707 IA9 C2A + S3 + T9 LEFT VERTICAL
RBNPDB	FLAGGED	AMES 87-707 IA9 C2A + S3 + T9 RIGHT VERTICAL

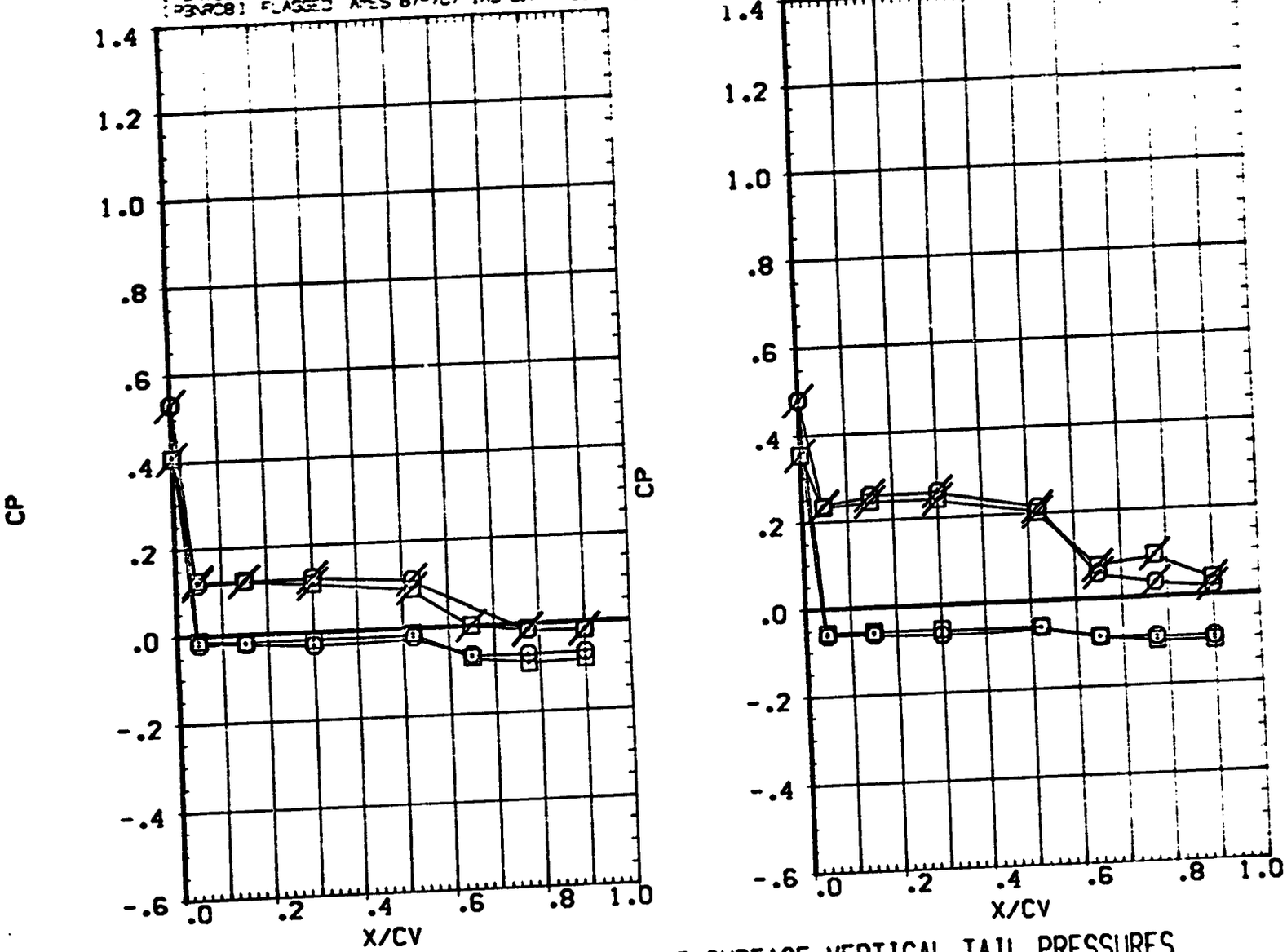


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
	.840	4.460	3.502
	.975	8.860	

ALPHAT	[illegible]	[illegible]	[illegible]
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[RBNVOB]	OPEN	AMES 87-707 [A9 O2A + S3 + T9 LEFT VERTICAL
[RBNROB]	FLAGGED	AMES 87-707 [A9 O2A + S3 + T9 RIGHT VERTICAL



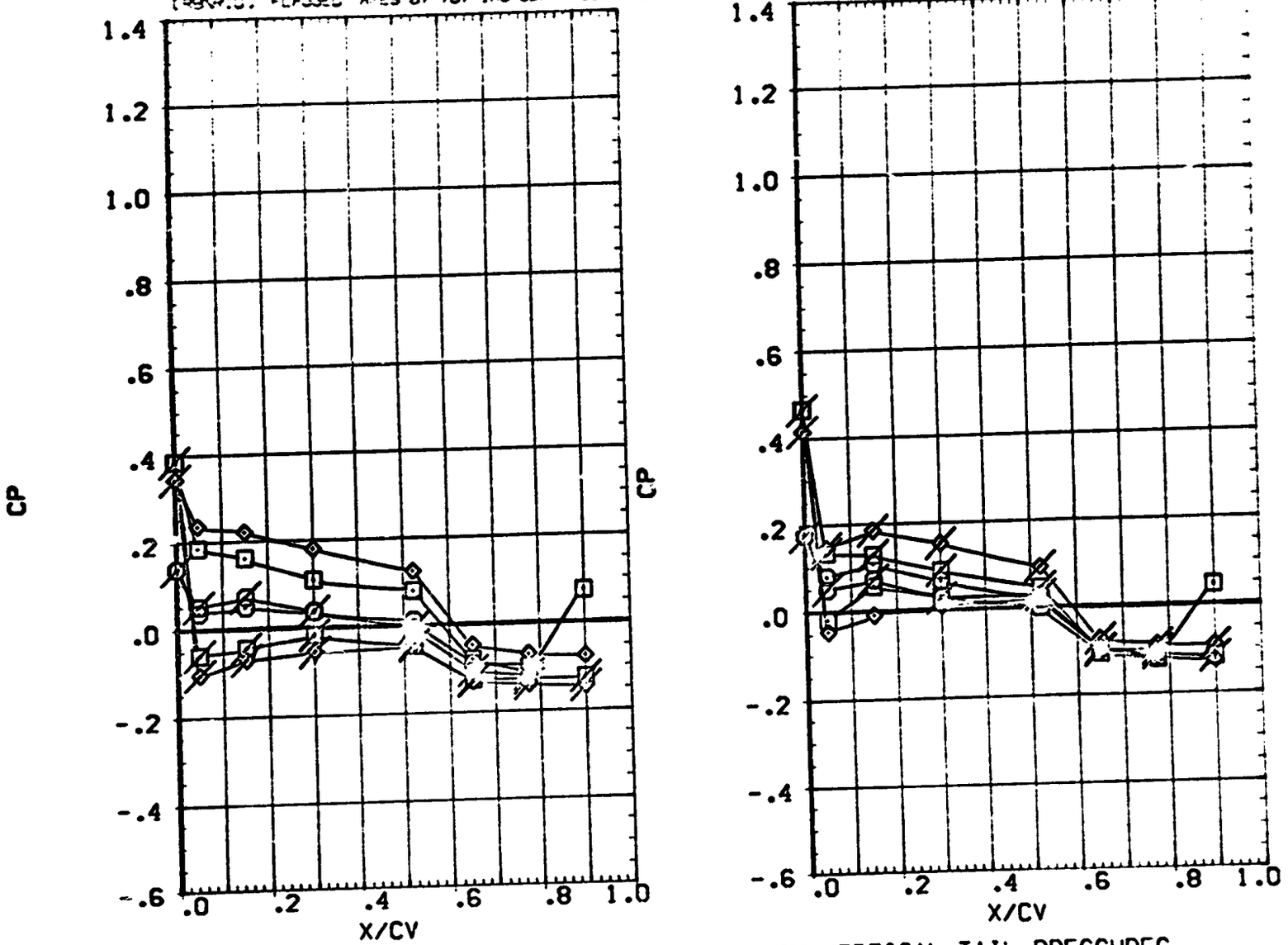
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA	MACH
○	.158	-4.170	2.498
□	.316	2.180	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	DBB:NC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNV:0)	OPEN	AMES 87-707 :A8 C2A + S3 + T9 LEFT VERTICAL
(RBNR:0)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



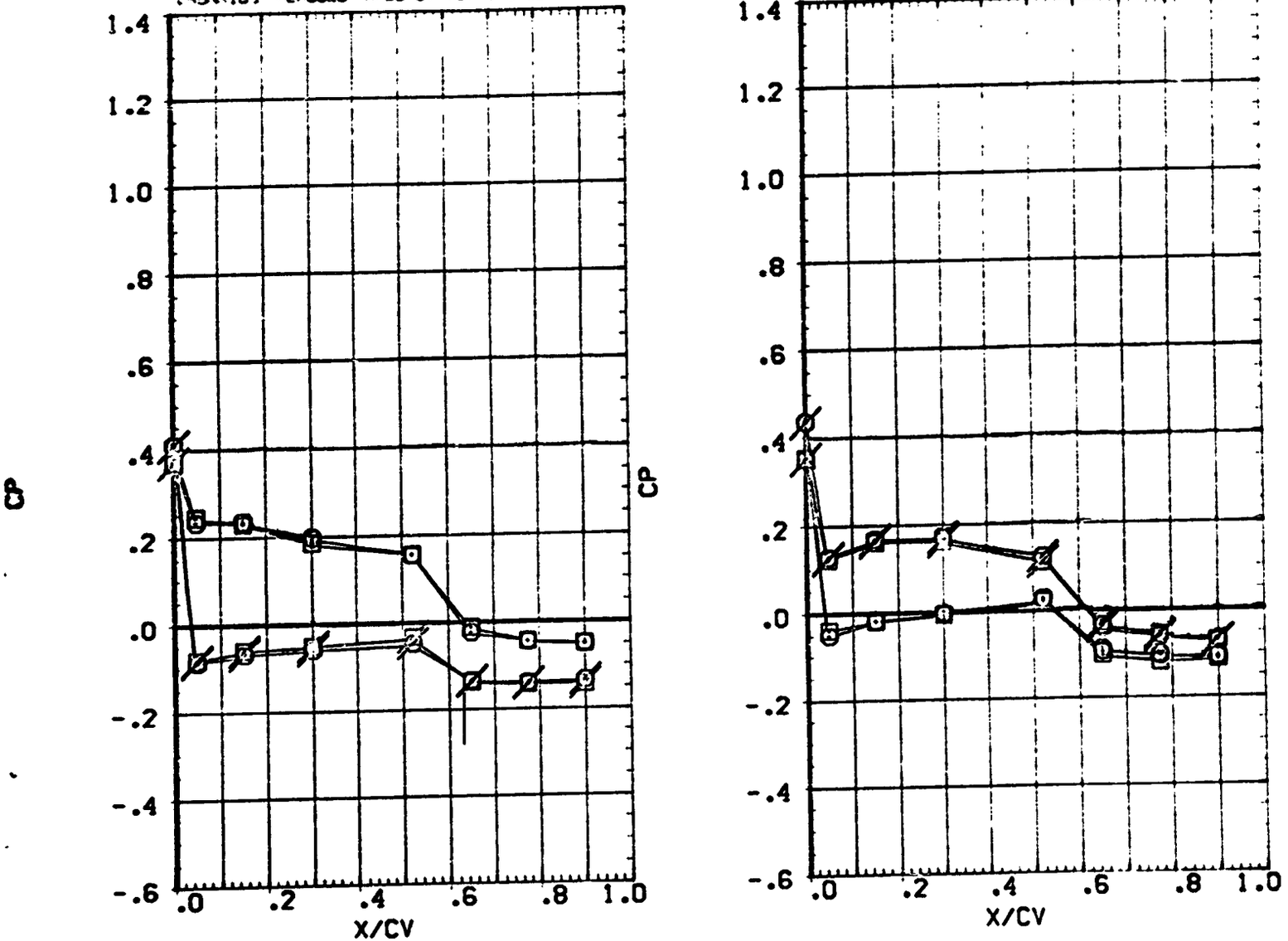
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	TYPE	BETA	MACH
○	.840	-4.170	2.498
□	.925	2.180	

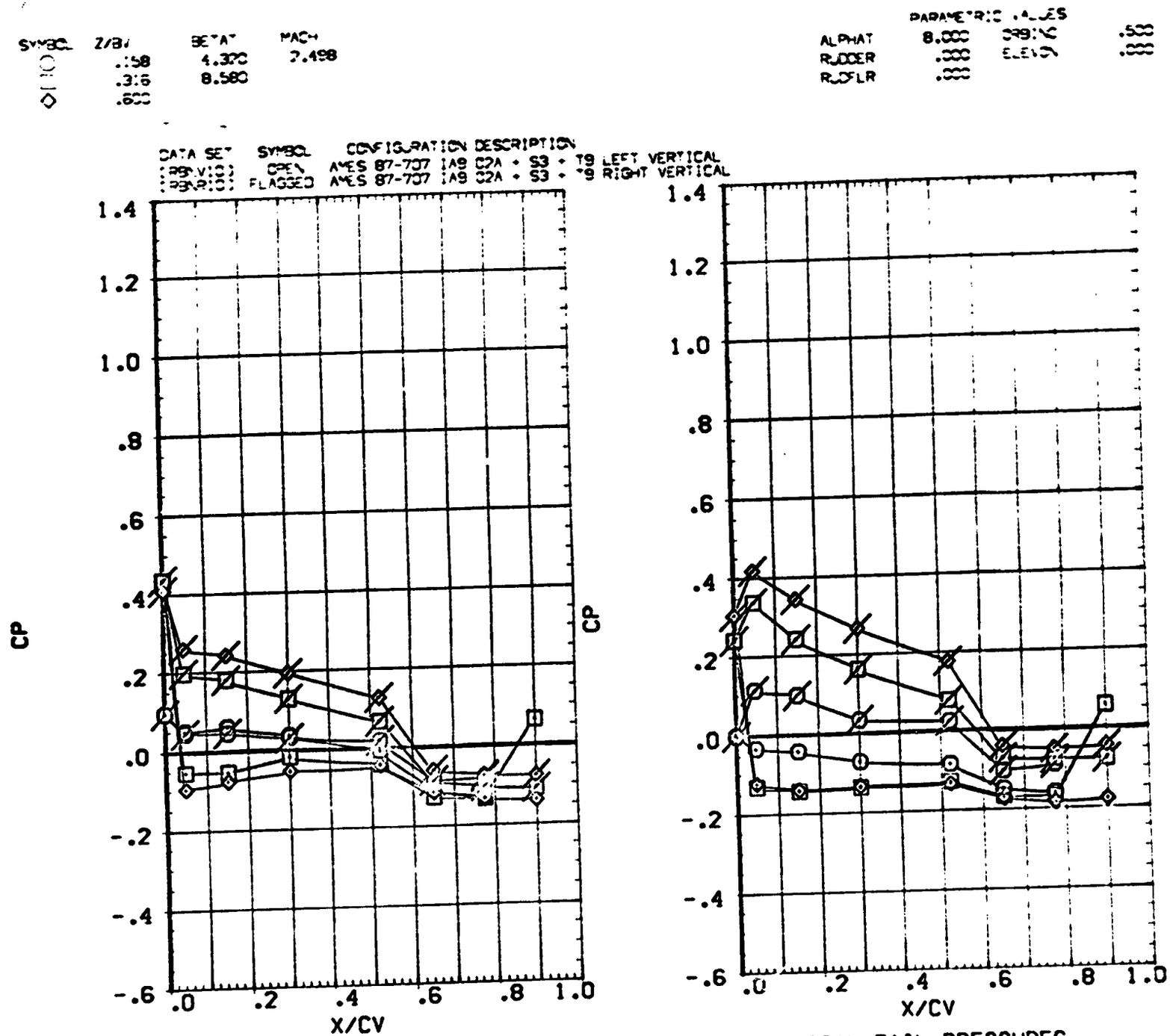
PARAMETRIC VALUES

ALPHA	8.000	DBDYC	.500
RUDDER	.000	ELEVON	.000
ROLL	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
RENVLO	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
RENVRO	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



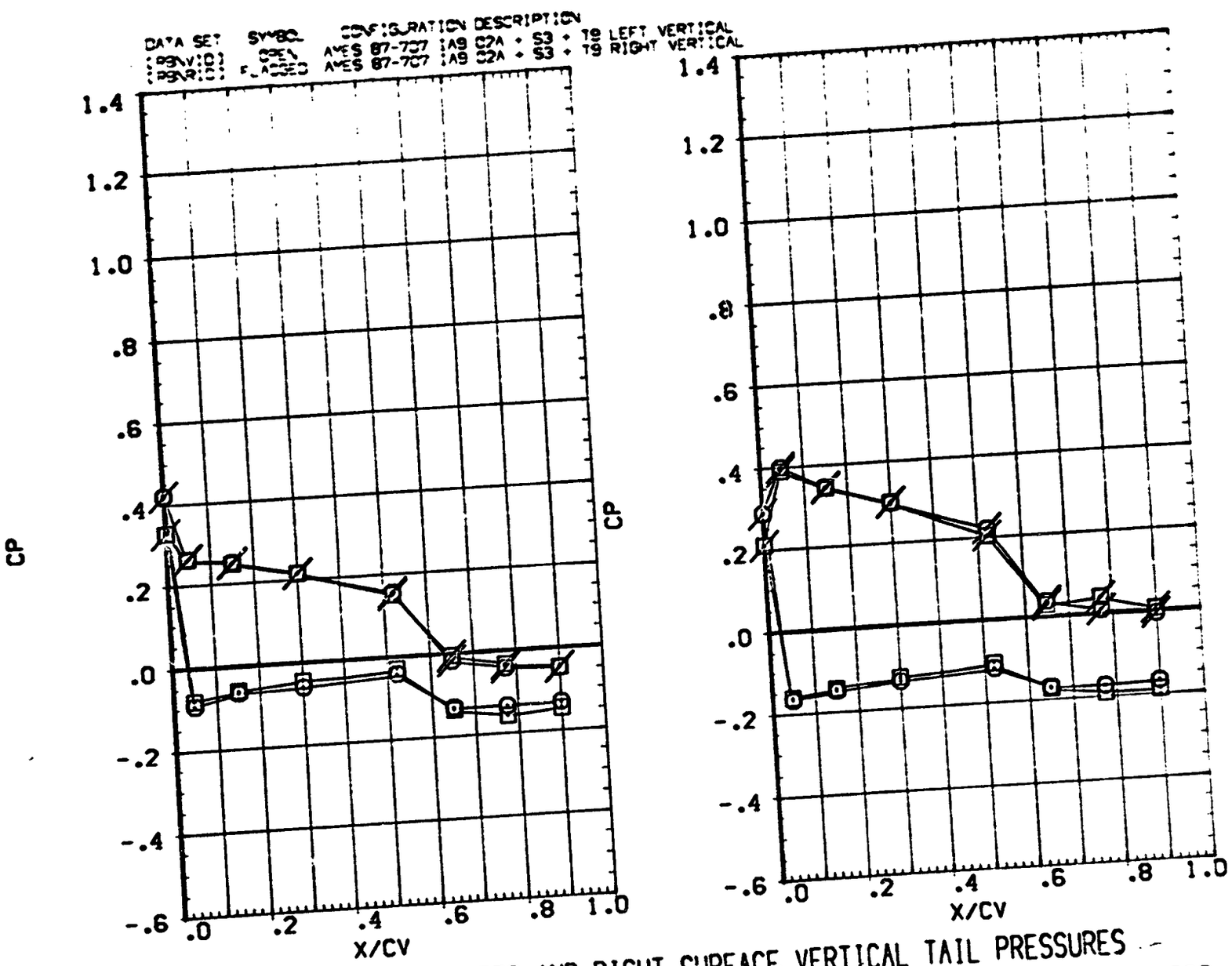
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/BV
.840 4.320 2.498
.975 8.580

RUDFLR .000



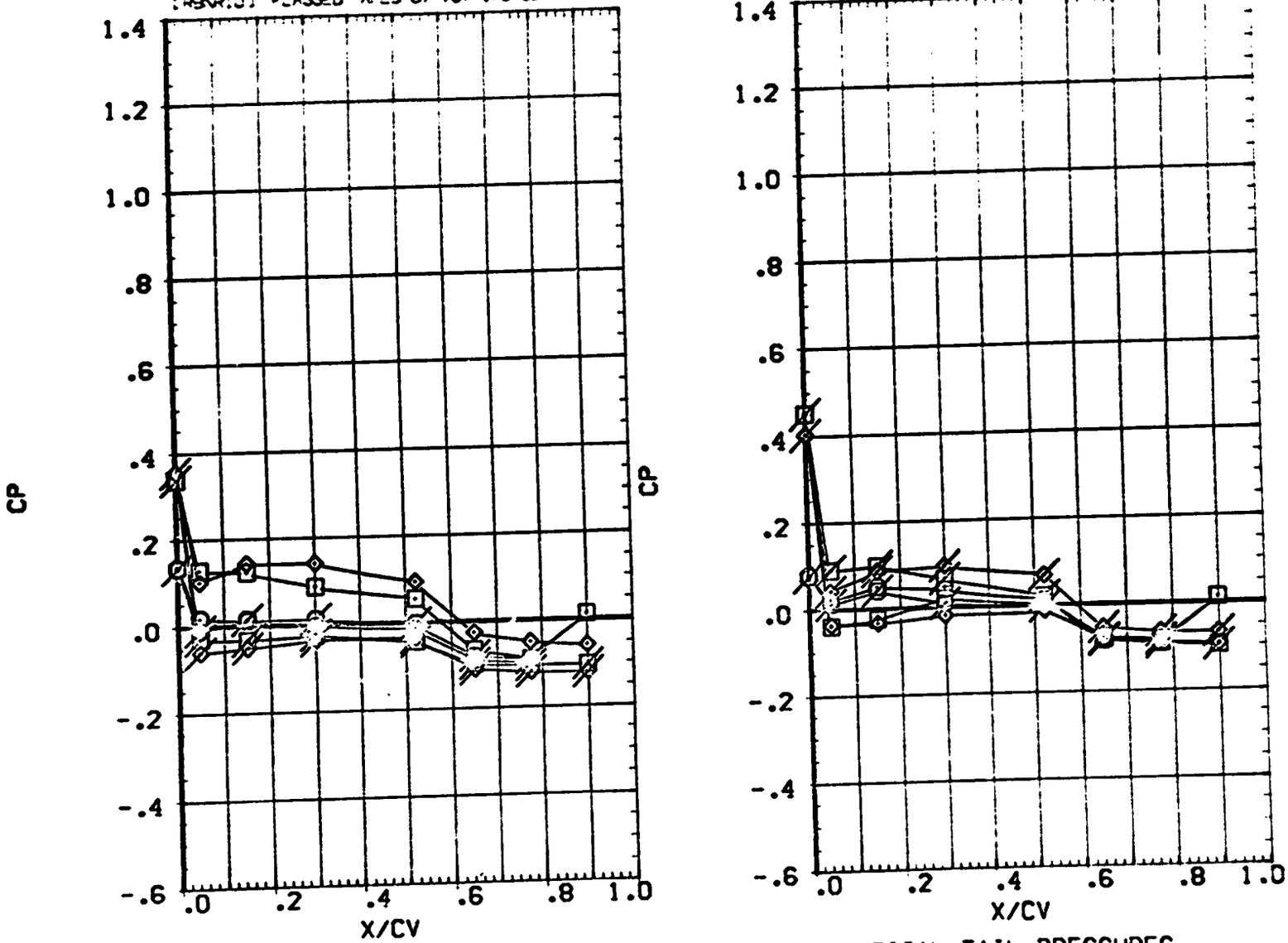
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.240	2.999
□	.316	2.230	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	SPEINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
RBNV101	OPEN	AMES 87-707 A9 C2A + S3 + T9 LEFT VERTICAL
RBNR101	FLAGGED	AMES 87-707 A9 C2A + S3 + T9 RIGHT VERTICAL



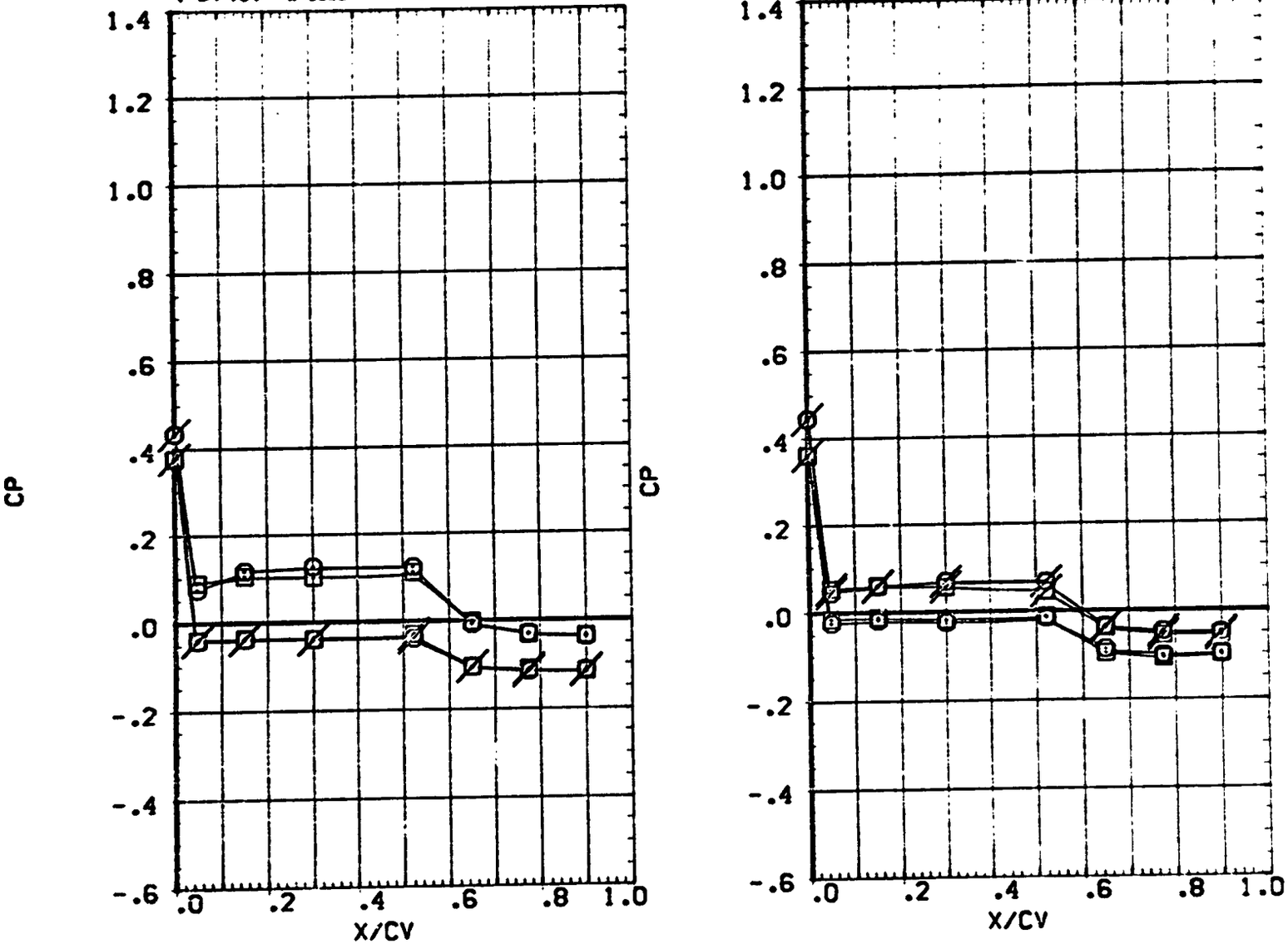
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-4.240	2.999
□	.925	2.230	

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[RBNVIO]	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
[RBNRIO]	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL

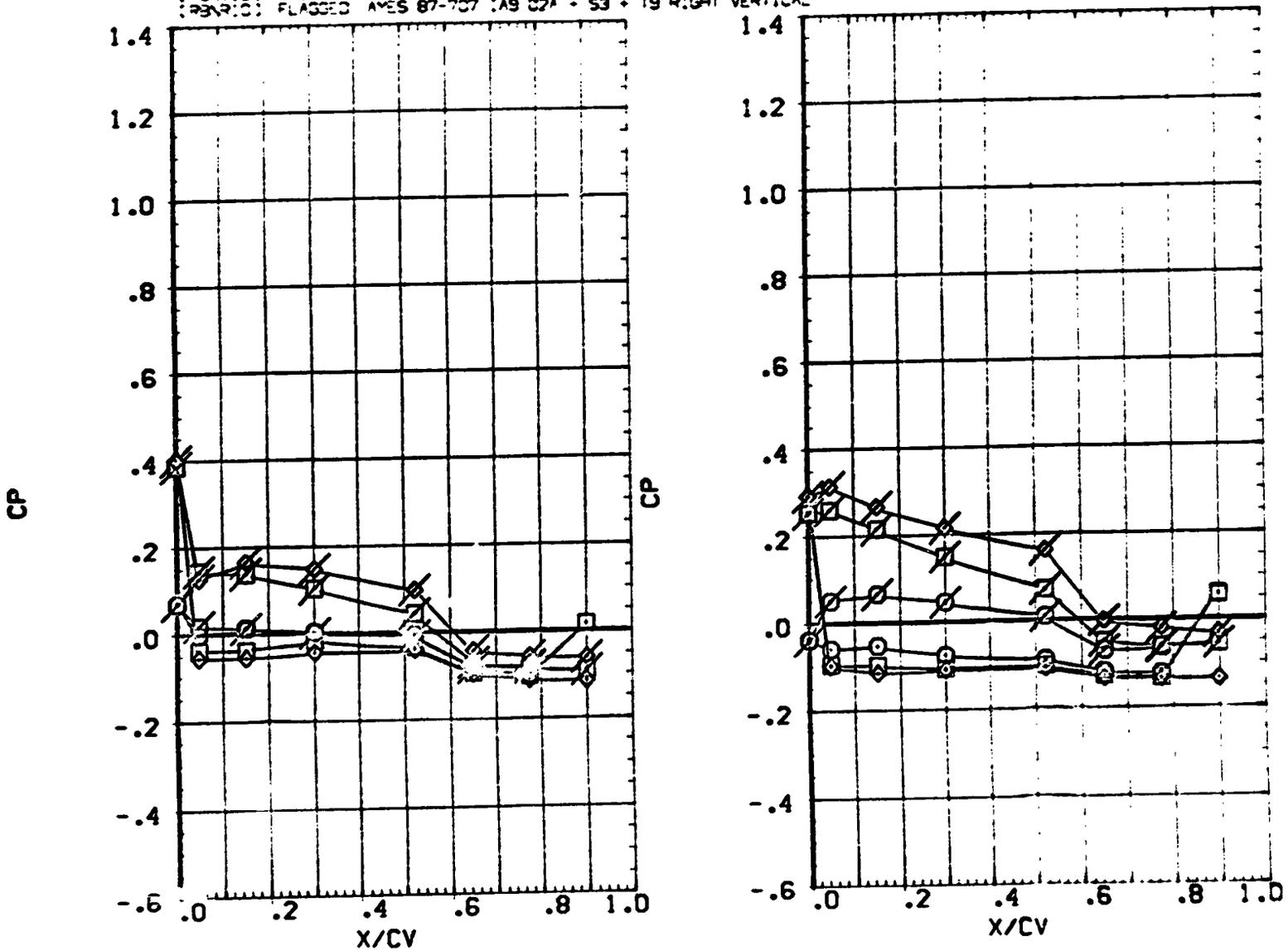


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETA	MACH
○	.158	4.400	2.999
□	.316	8.740	
◇	.600		

PARAMETRIC VALUES			
ALPHA	8.000	DBODY	.500
RUDDER	.000	ELEVN	.000
ROLLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
PSNVIC	OPEN	AMES 87-707 :A9 D2A + S3 + T9 LEFT VERTICAL
PSNVIC	FLAGGED	AMES 87-707 :A9 D2A + S3 + T9 RIGHT VERTICAL



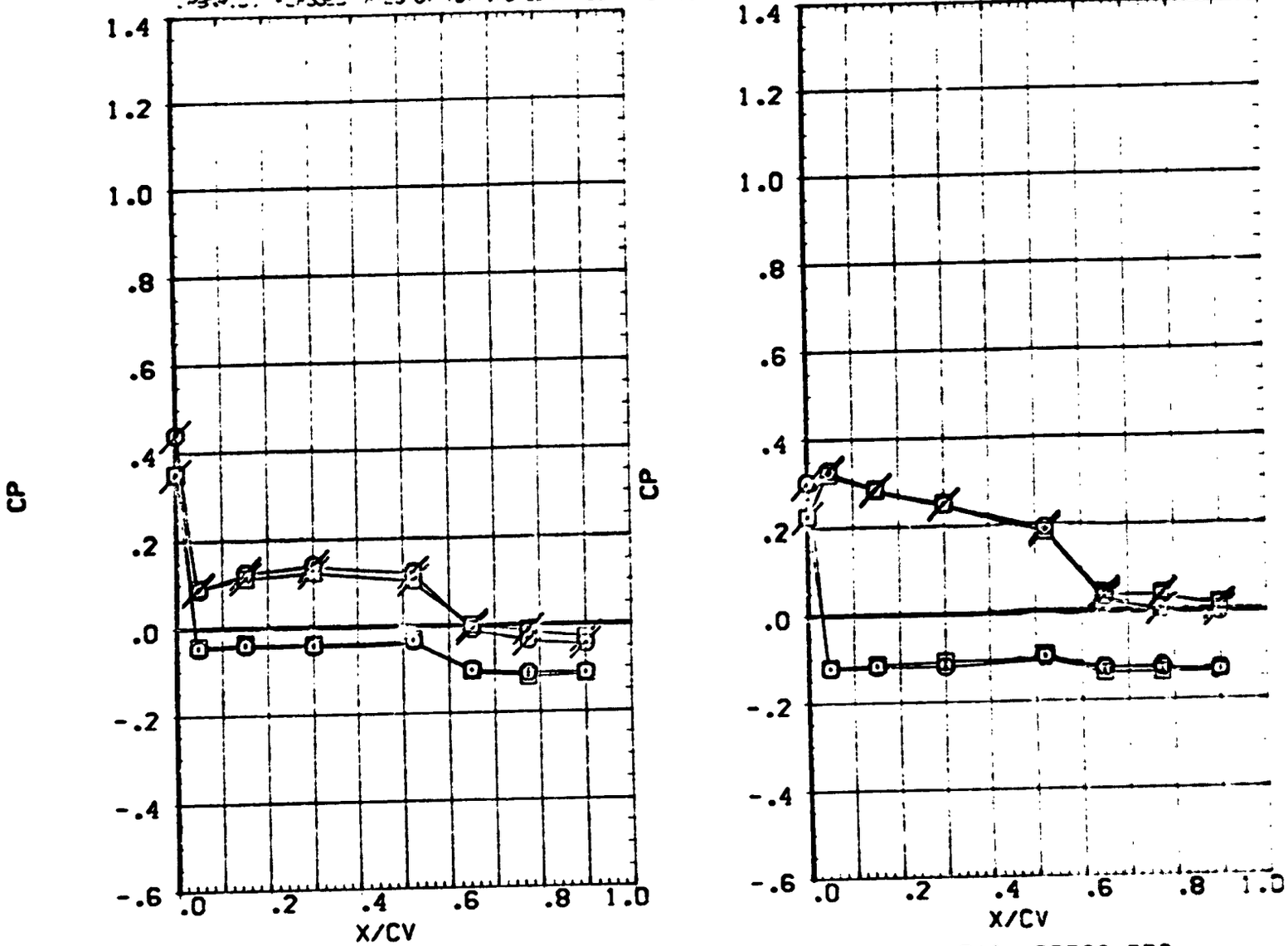
- CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETA	MACH
○	.840	4.400	2.999
□	.975	8.740	

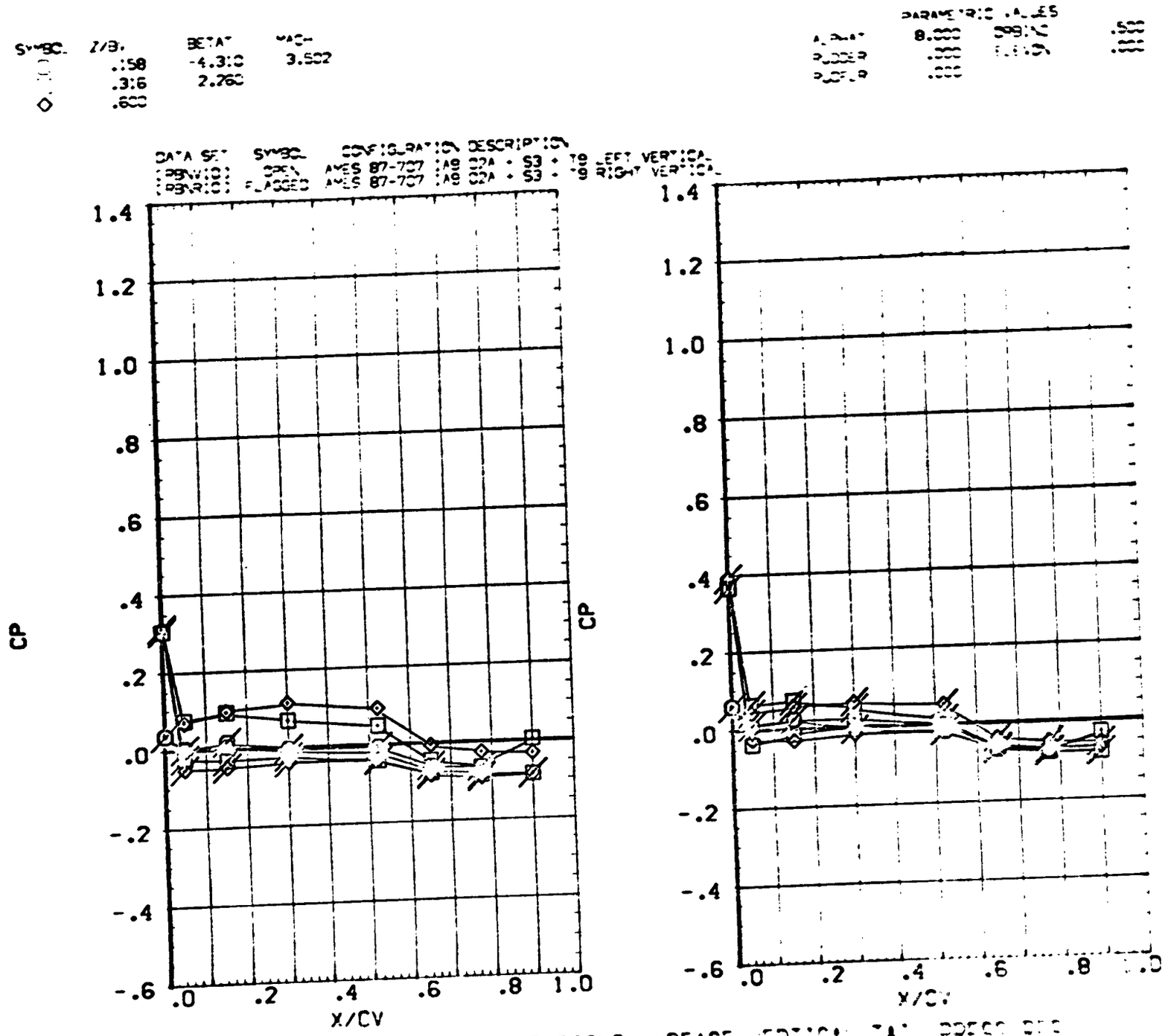
PARAMETRIC VALUES

ALPHA	8.000	DOWING	.000
RUDDER	.000	ELEVON	.000
RUDDER	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
PSV101	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
PSR101	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

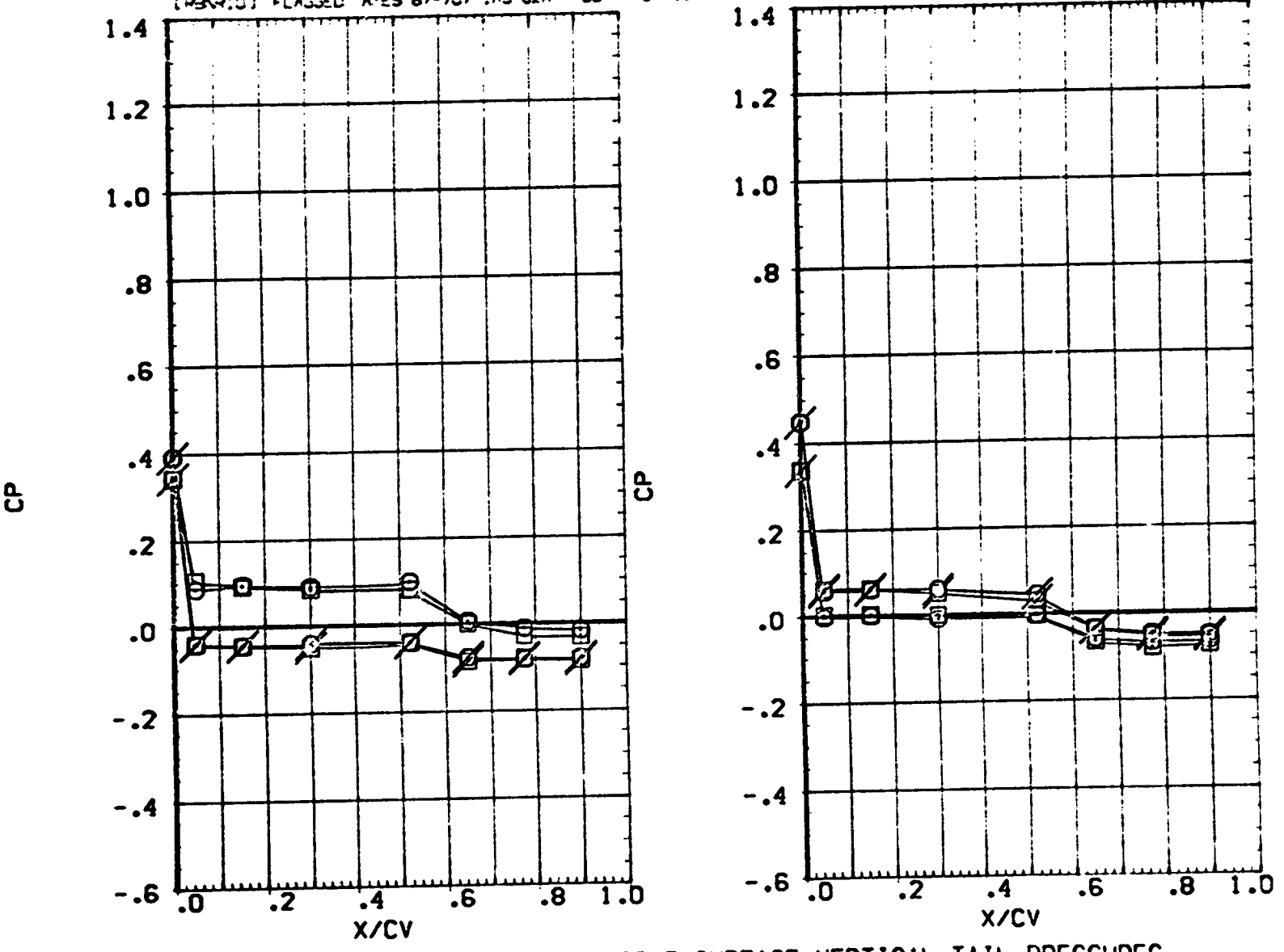


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-4.310	3.502
□	.925	2.260	

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNVIO)	OPEN	AMES 87-707 (A9 02A + S3 + T9 LEFT VERTICAL
(RBNRIO)	FLAGGED	AMES 87-707 (A9 02A + S3 + T9 RIGHT VERTICAL



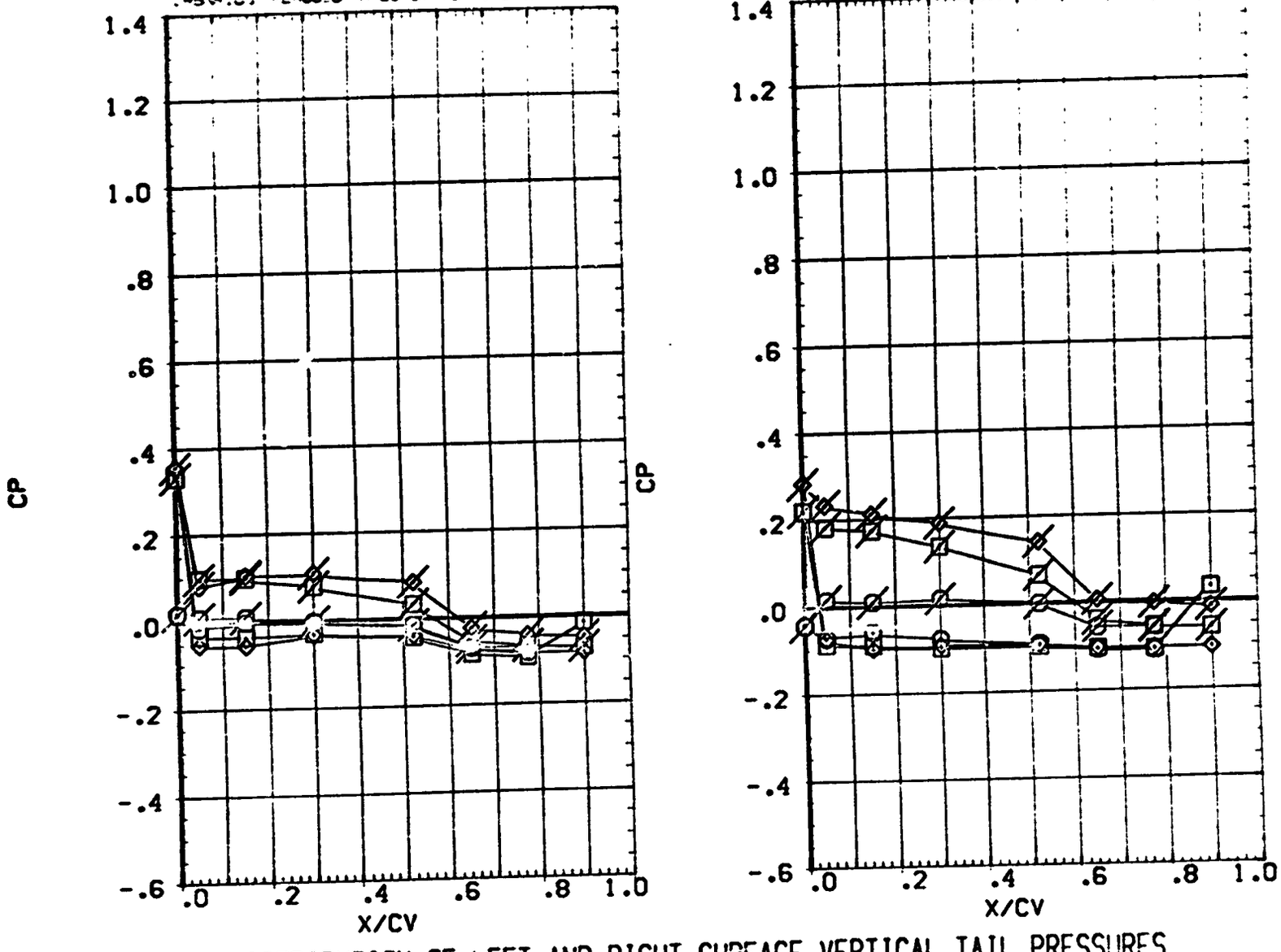
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA	MACH
○	.150	4.480	3.507
□	.315	8.900	
◇	.600		

PARAMETRIC VALUES

ALPHA	8.000	DBYINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
PSNV101	OPEN	AMES 87-707 :A9 D2A + S3 + T9 LEFT VERTICAL
PSNP101	FLAGGED	AMES 87-707 :A9 D2A + S3 + T9 RIGHT VERTICAL



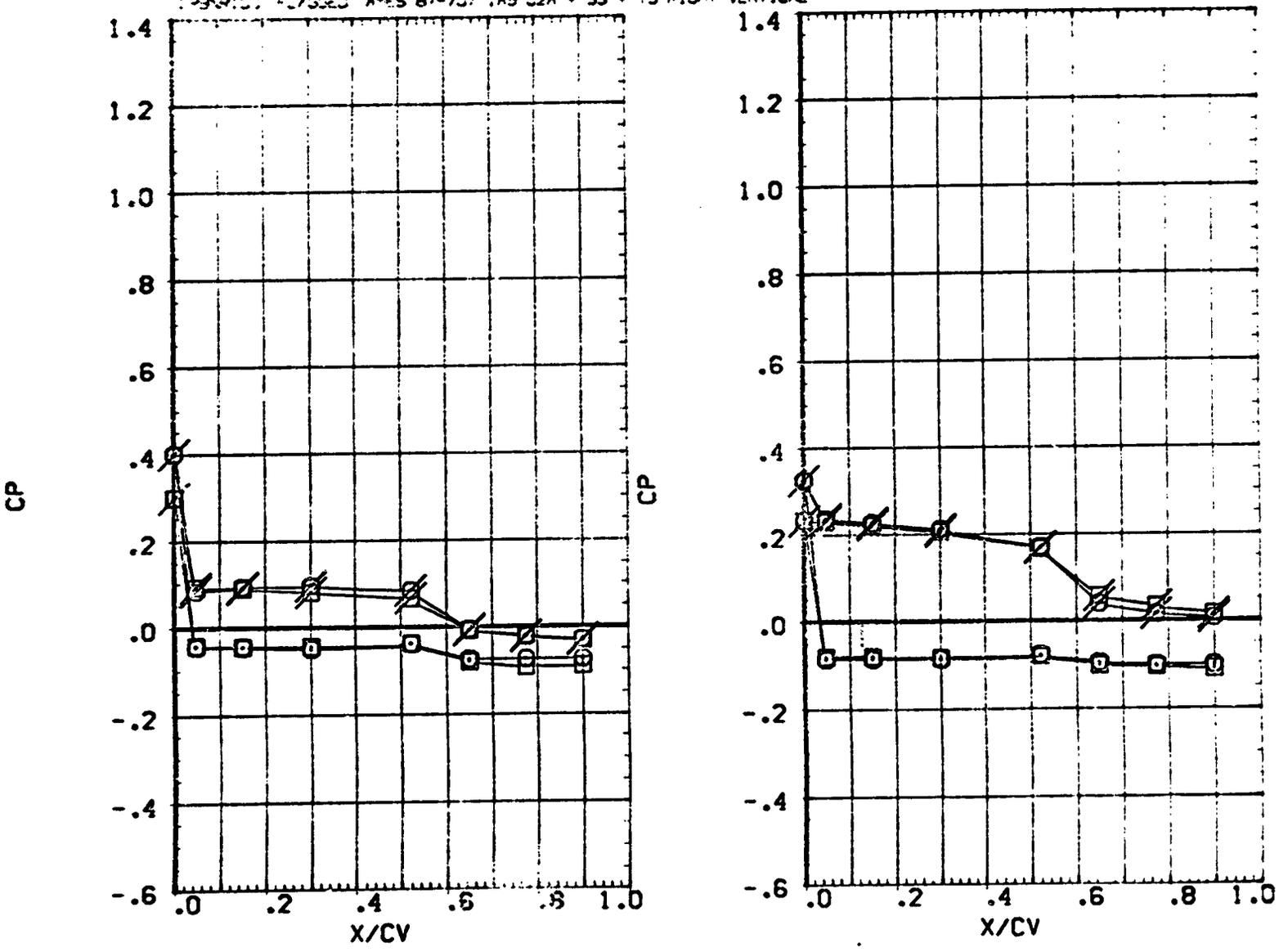
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	4.480	3.502
□	.970	9.900	

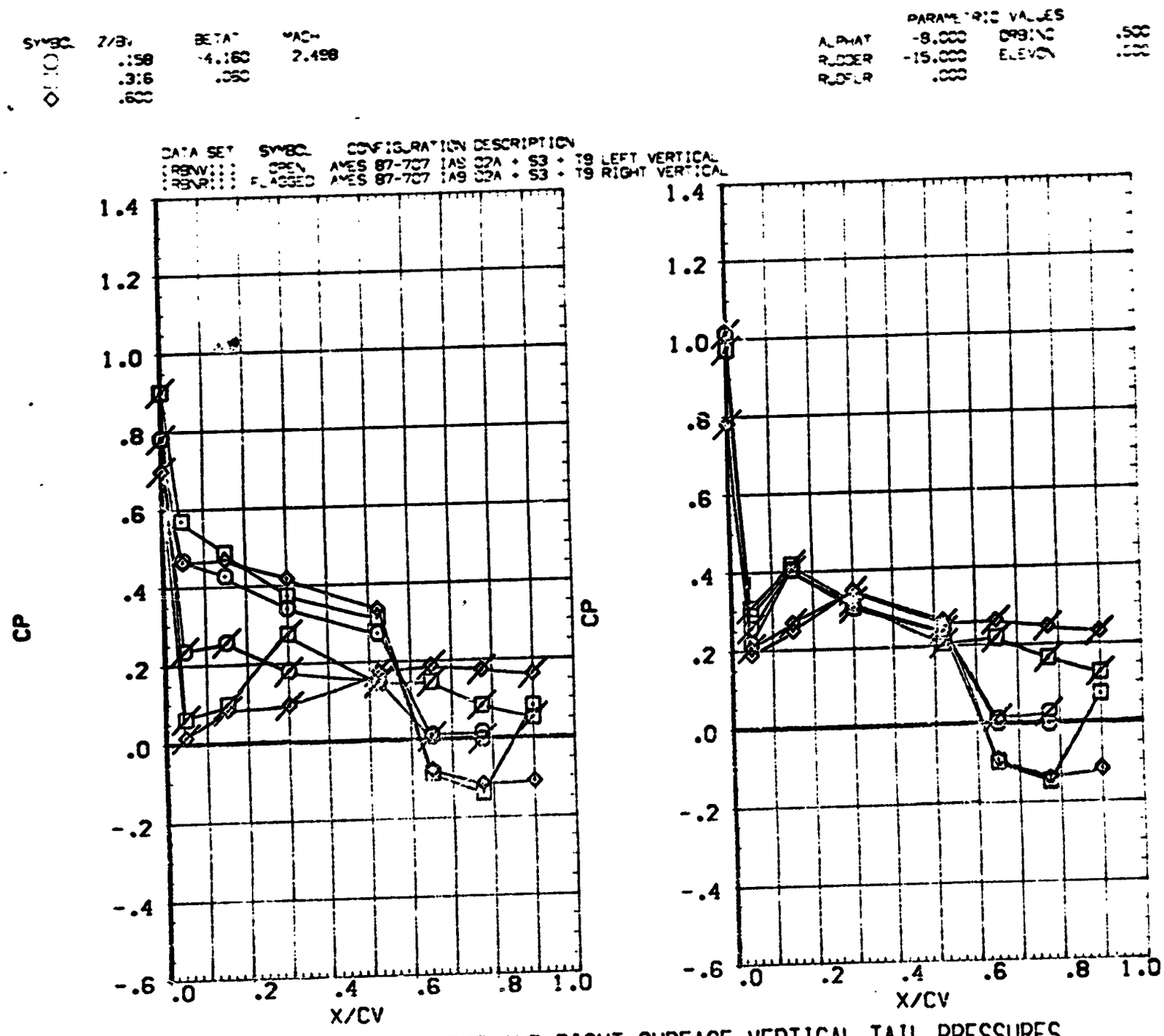
PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

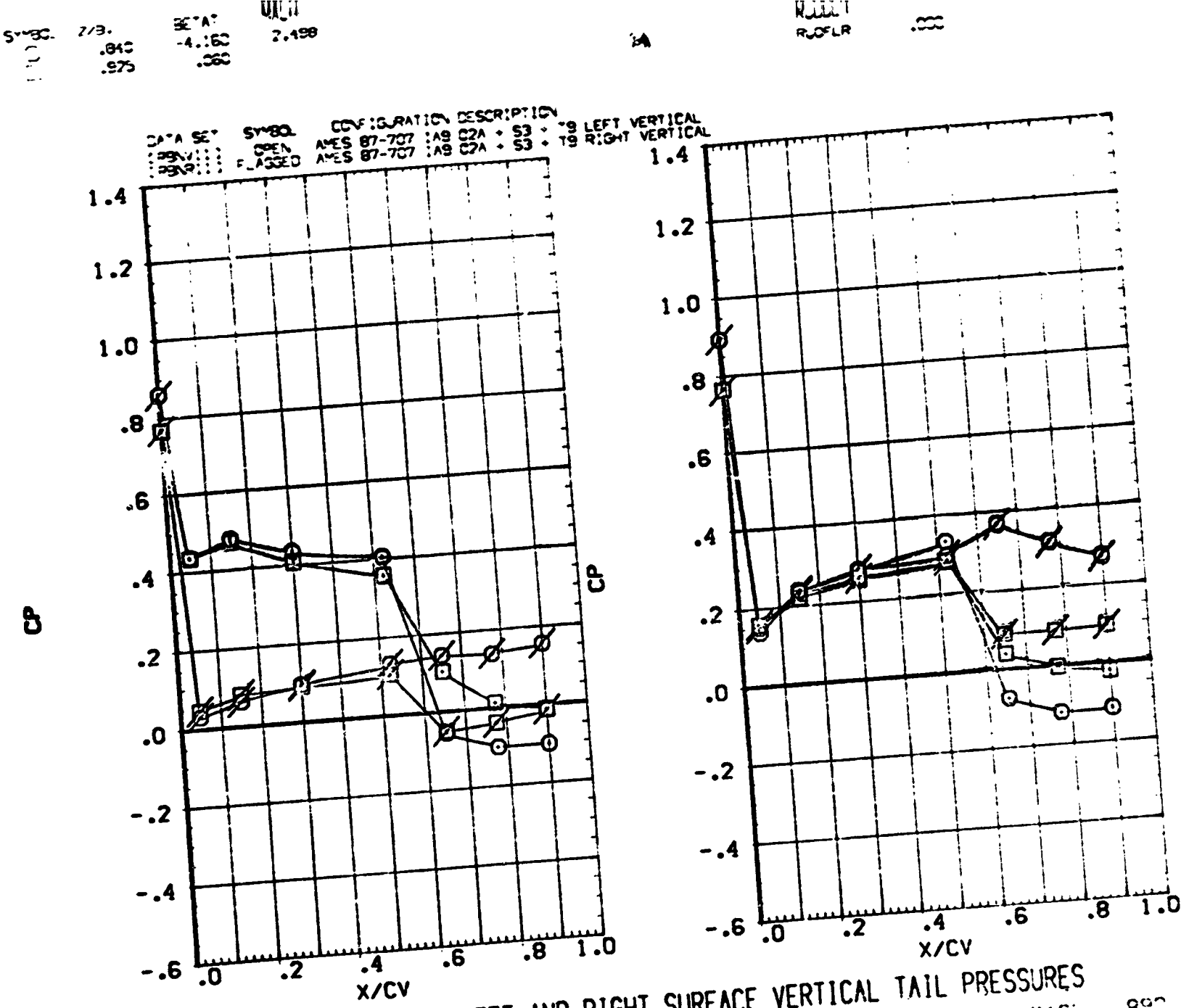
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PBNVID)	OPEN	AMES 87-707 (A9 02A + S3 + T9 LEFT VERTICAL
(PBNRID)	FLAGGED	AMES 87-707 (A9 02A + S3 + T9 RIGHT VERTICAL



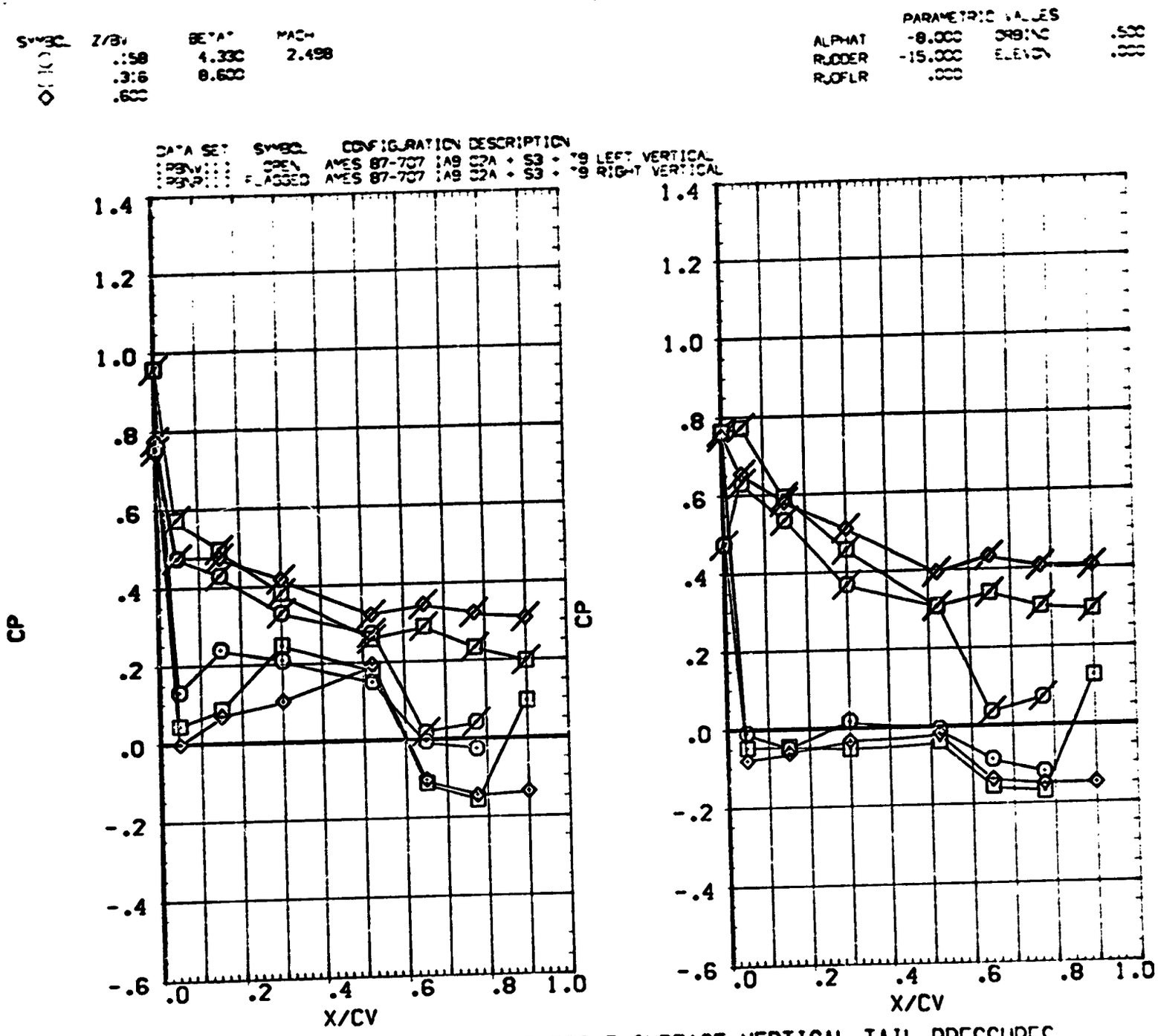
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



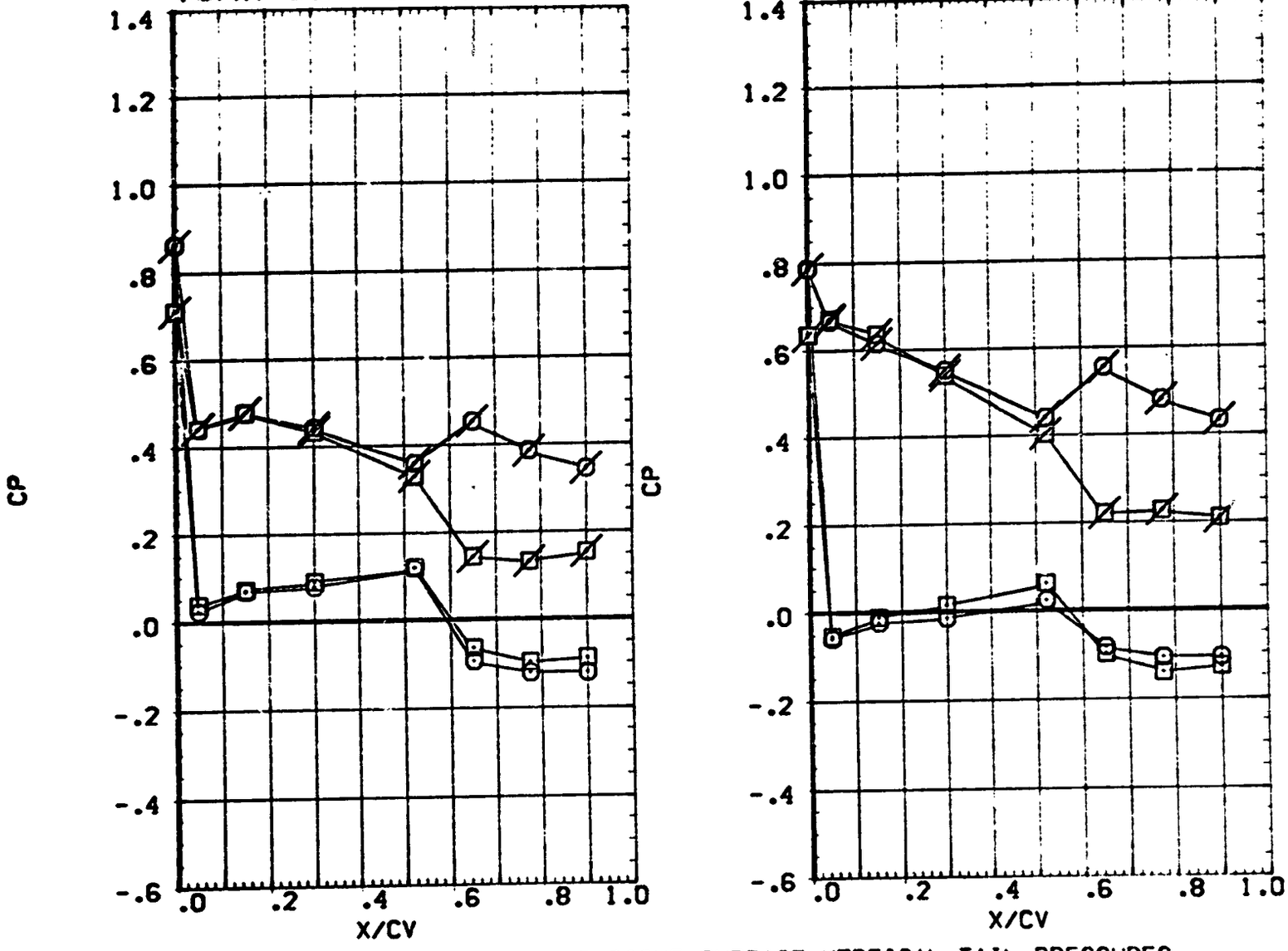
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA	MACH
	.840	4.330	2.498
	.975	8.600	

PARAMETRIC VALUES

ALPHA	-8.000	SPOILR	.500
RUDDER	-15.000	ELEVON	.000
RUDDLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RSVL1)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(RSVR1)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



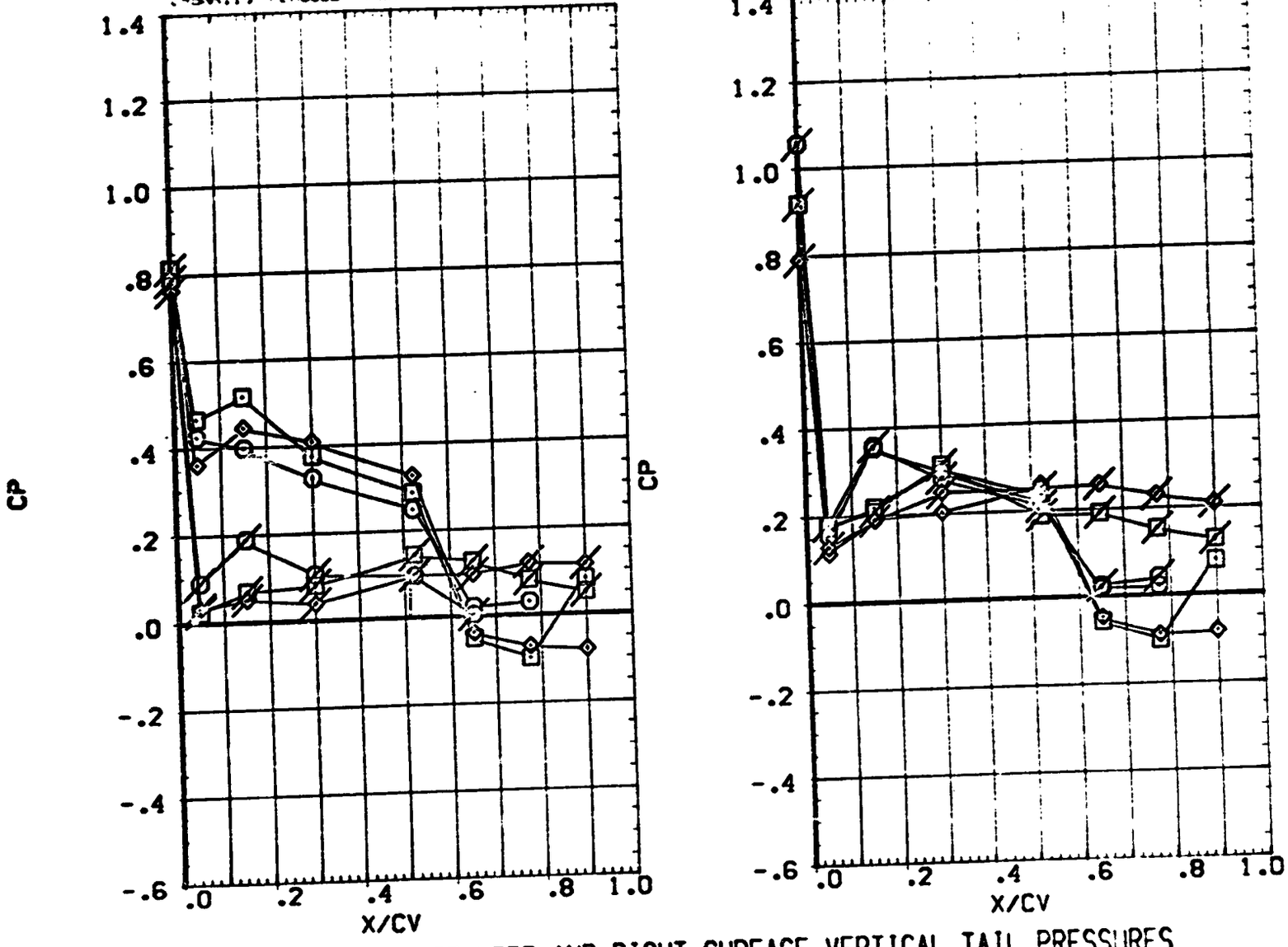
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.260	2.999
□	.316	.050	
◇	.600		

PARAMETRIC VALUES

ALPHAT	-8.000	DBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLP	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
PBVL[1]	OPEN	AMES 87-707 A9 C2A + S3 + T9 LEFT VERTICAL
PBVR[1]	FLAGGED	AMES 87-707 A9 C2A + S3 + T9 RIGHT VERTICAL



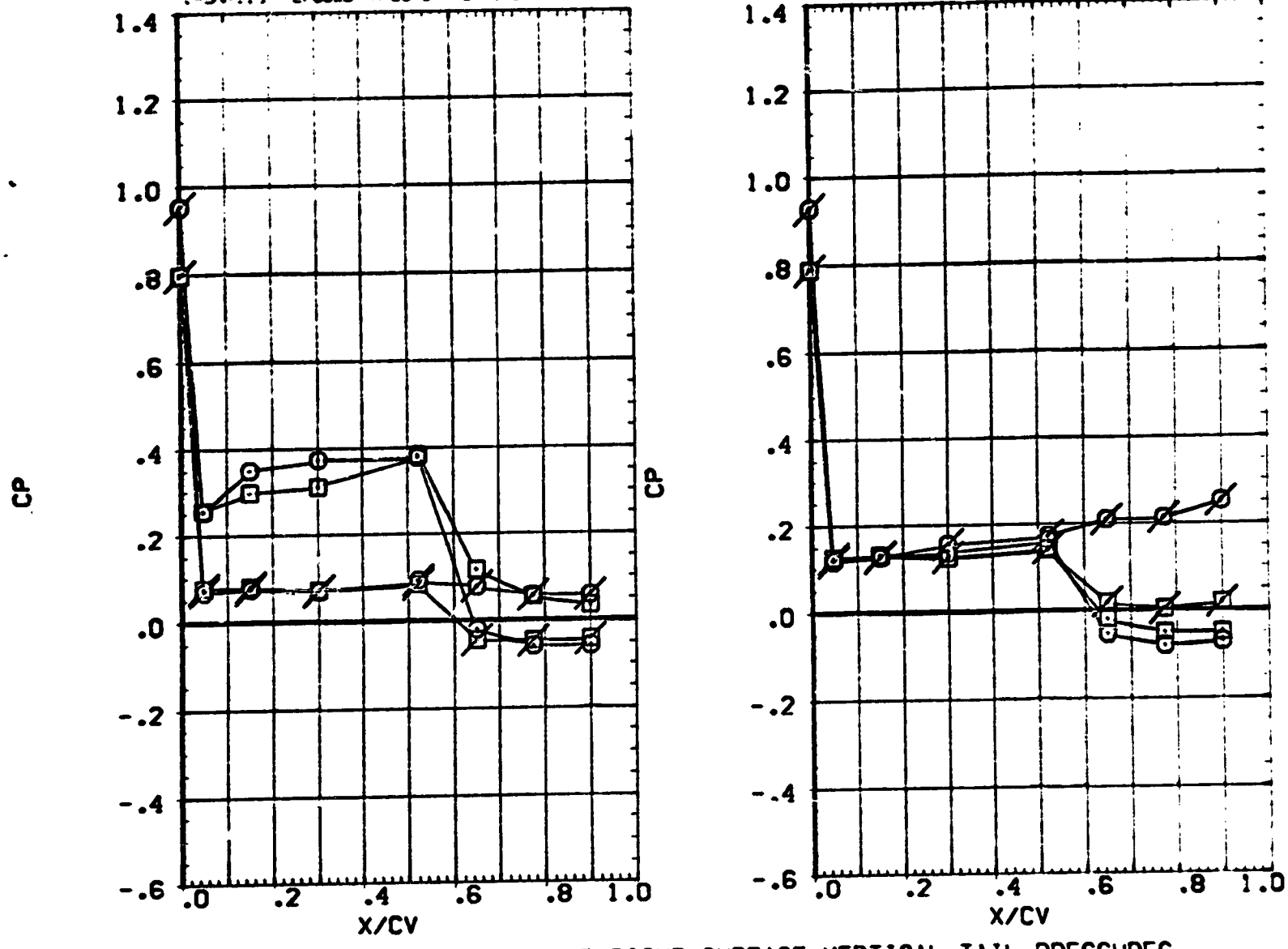
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA	MACH
	.840	-4.260	2.999
	.975	.050	

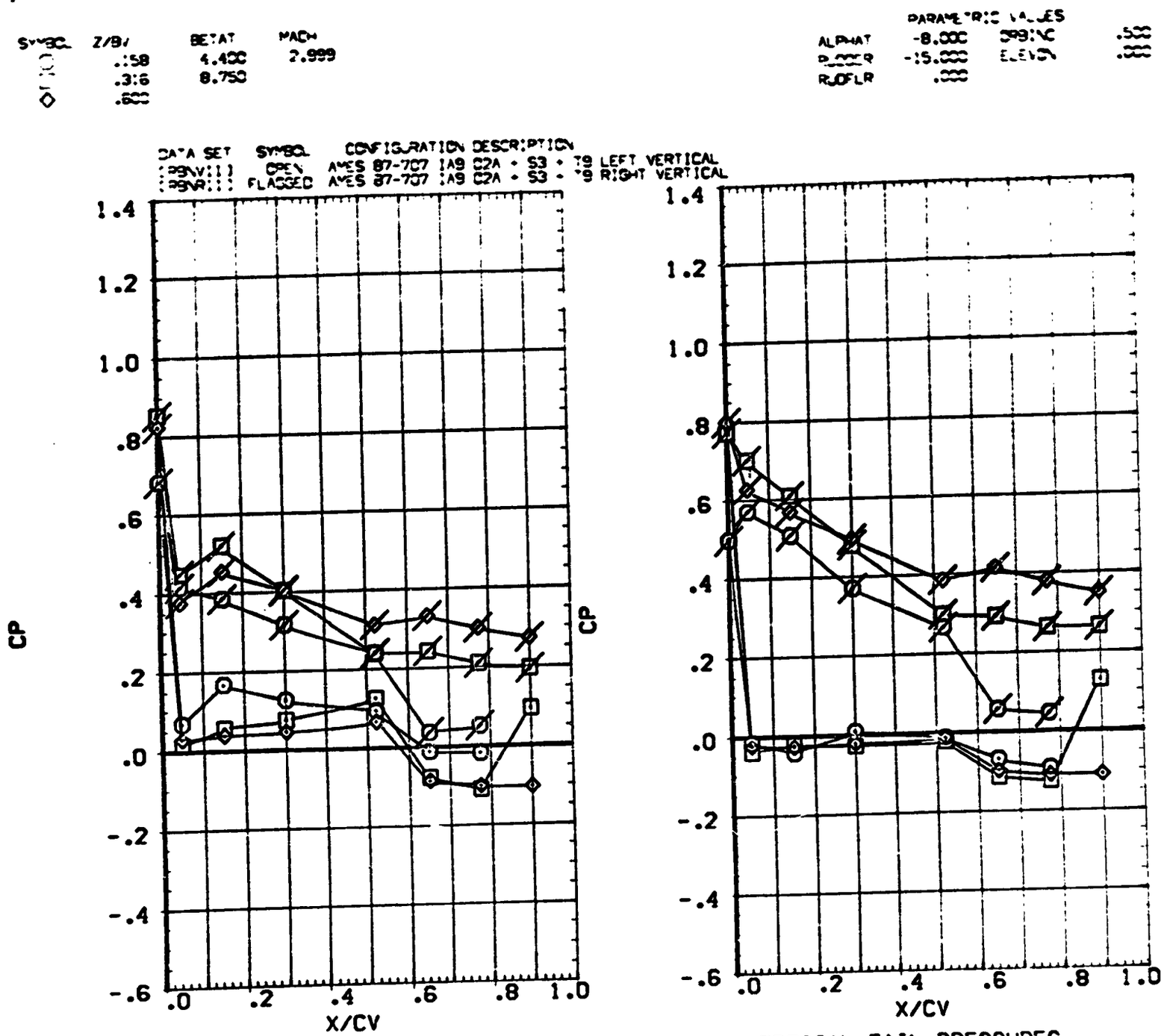
PARAMETRIC VALUES

ALPHAT	-8.000	SREF	.500
RUDDER	-15.000	ELEV	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
PSV	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
PSVF	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



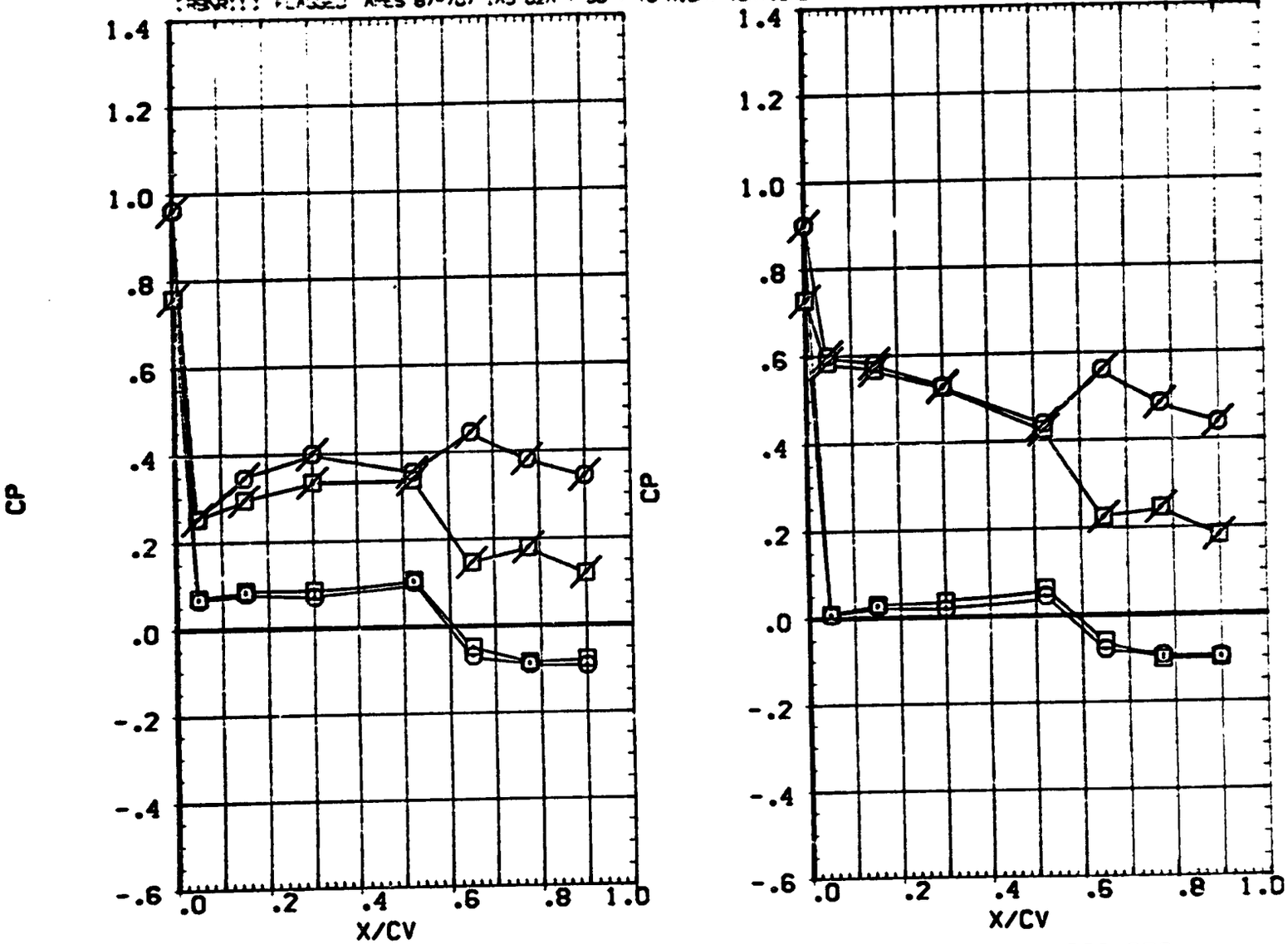
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA	MACH
○	.840	4.430	2.999
□	.975	8.750	

PARAMETRIC VALUES

ALPHAT	-8.000	SPRINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
RSNV111	OPEN	AMES 87-707 !A9 C2A + S3 + T9 LEFT VERTICAL
RSNR111	FLAGGED	AMES 87-707 !A9 C2A + S3 + T9 RIGHT VERTICAL



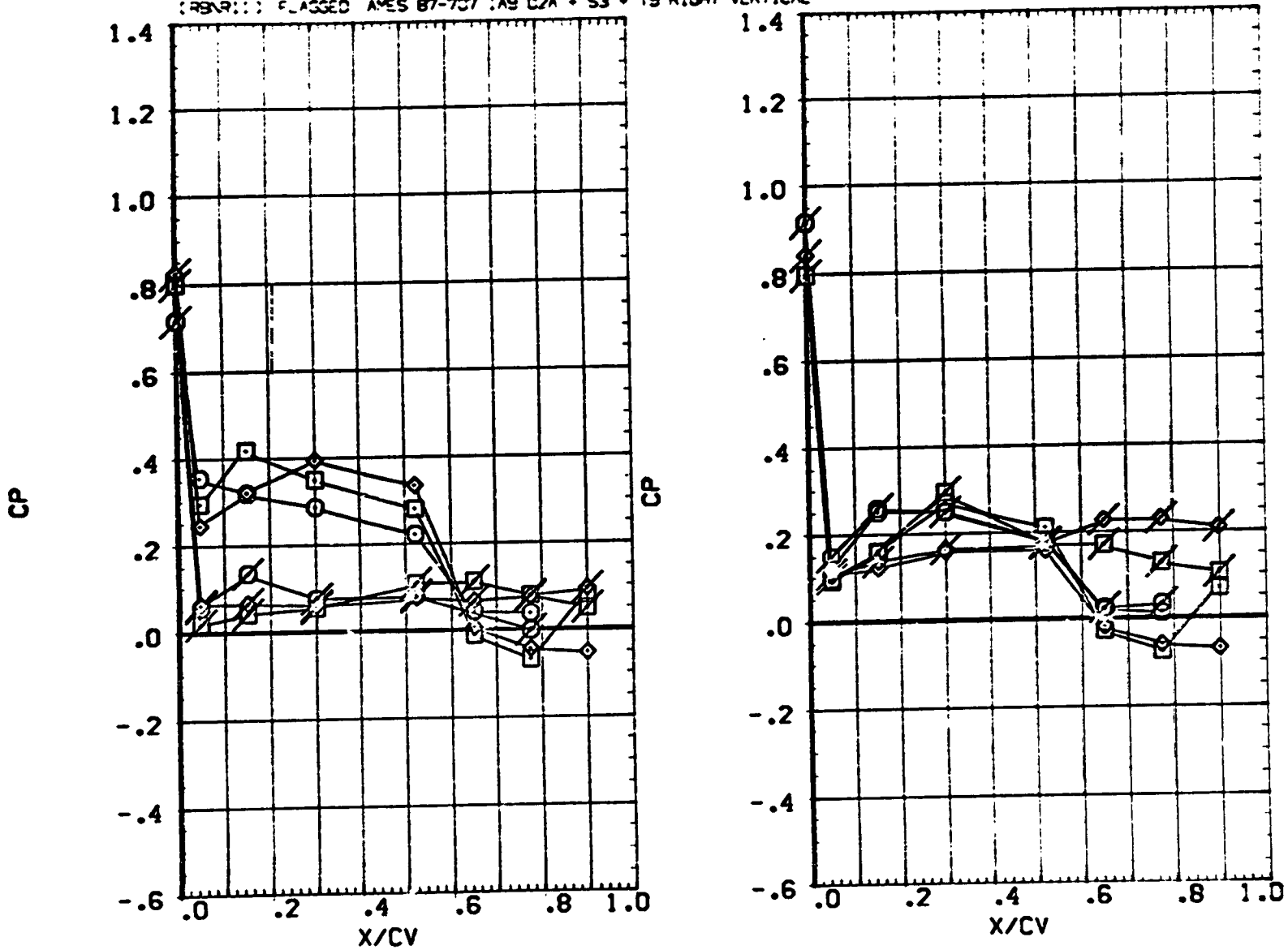
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA	MACH
○	.158	-4.330	3.502
□	.316	.050	
◇	.600		

PARAMETRIC VALUES

ALPHAT	-8.000	DBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
RBNV	OPEN	AMES 87-707 :A9 D2A + S3 + T9 LEFT VERTICAL
RBNR	FLAGGED	AMES 87-707 :A9 D2A + S3 + T9 RIGHT VERTICAL



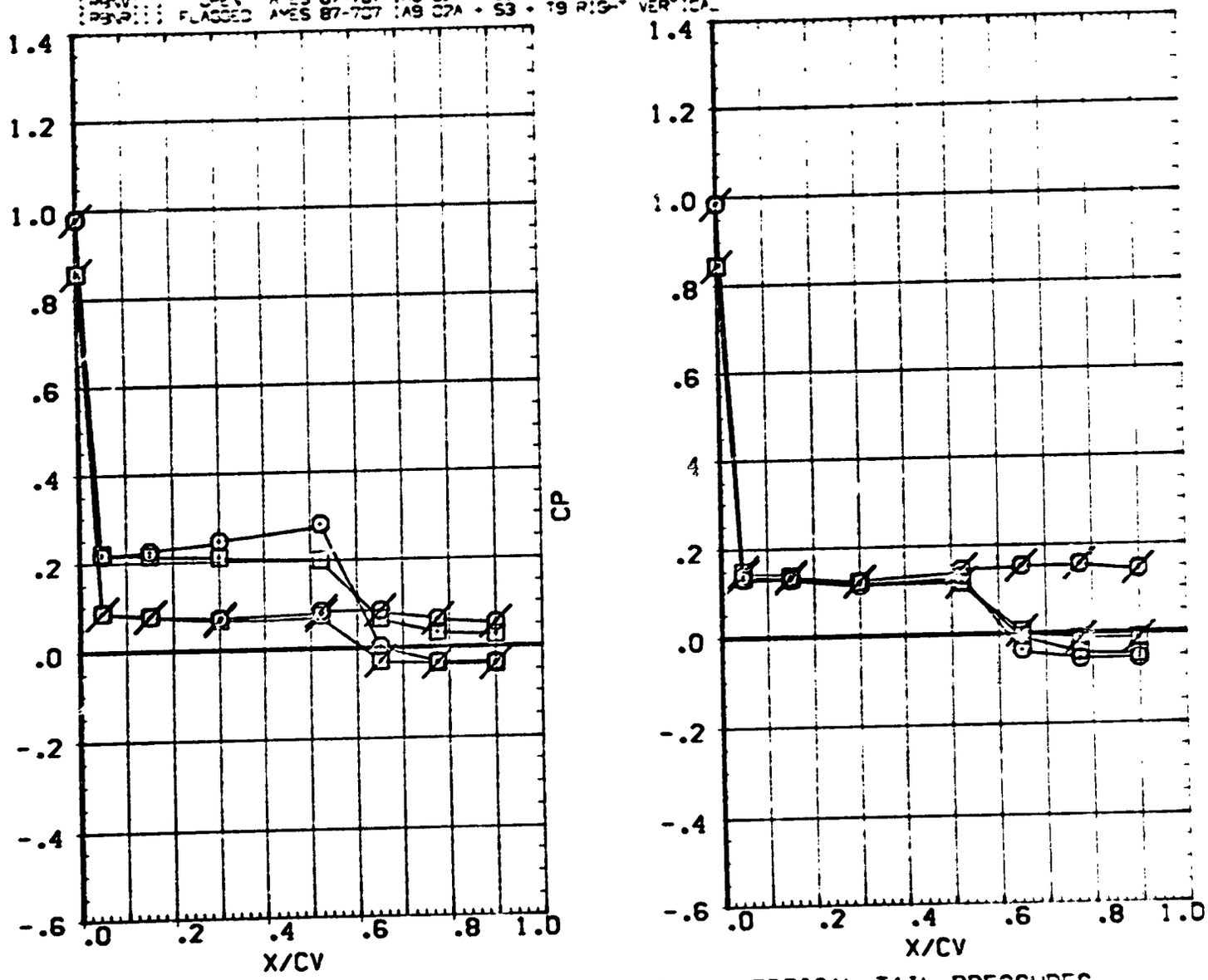
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETA	MACH
	.840	-4.330	3.502
	.975	.050	

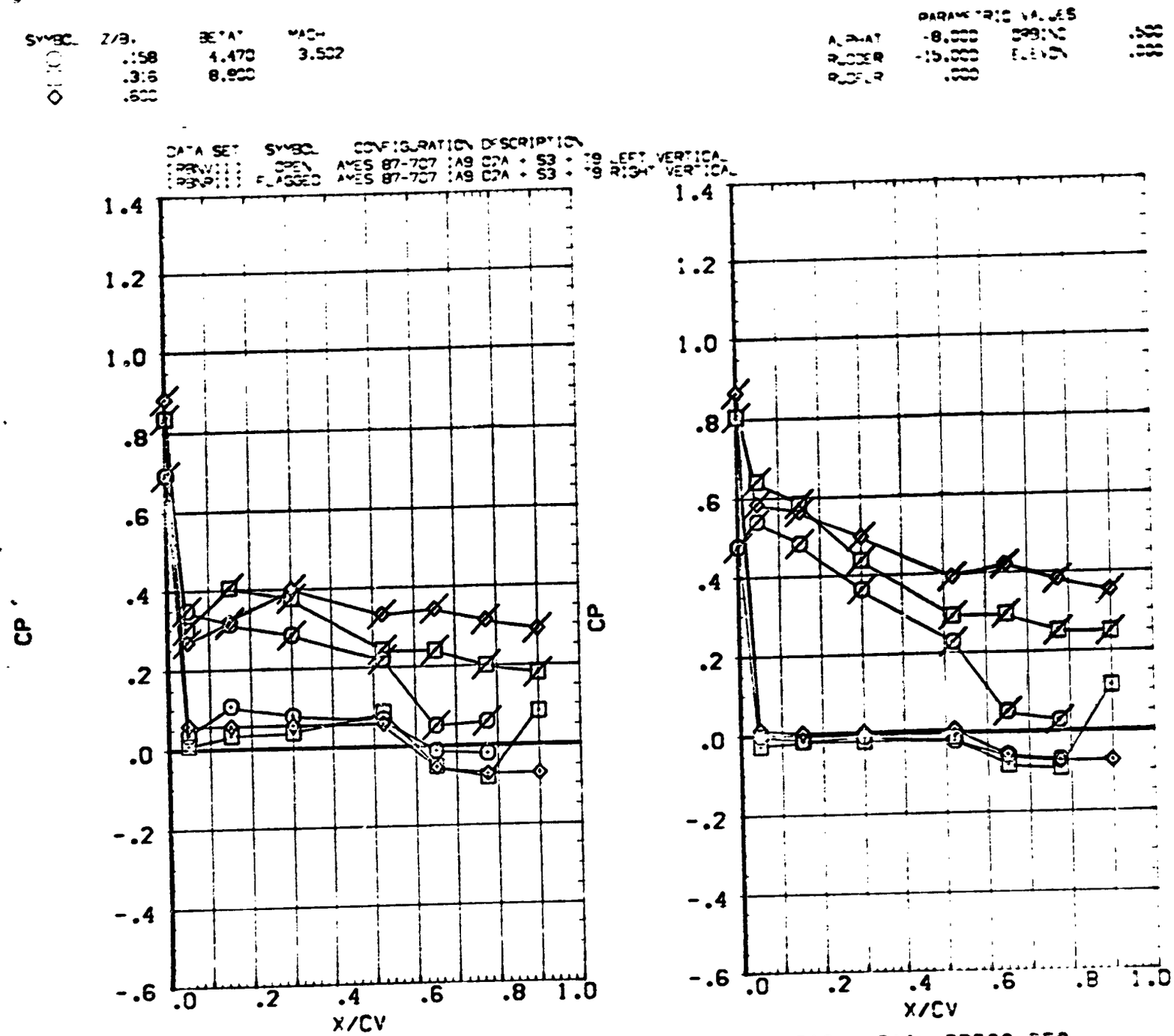
PARAMETRIC VALUES

ALPHA	-8.000	DBIAS	.500
RUDDER	-15.000	ELEVON	.000
ROLL	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
PSVV	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
PSVP	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



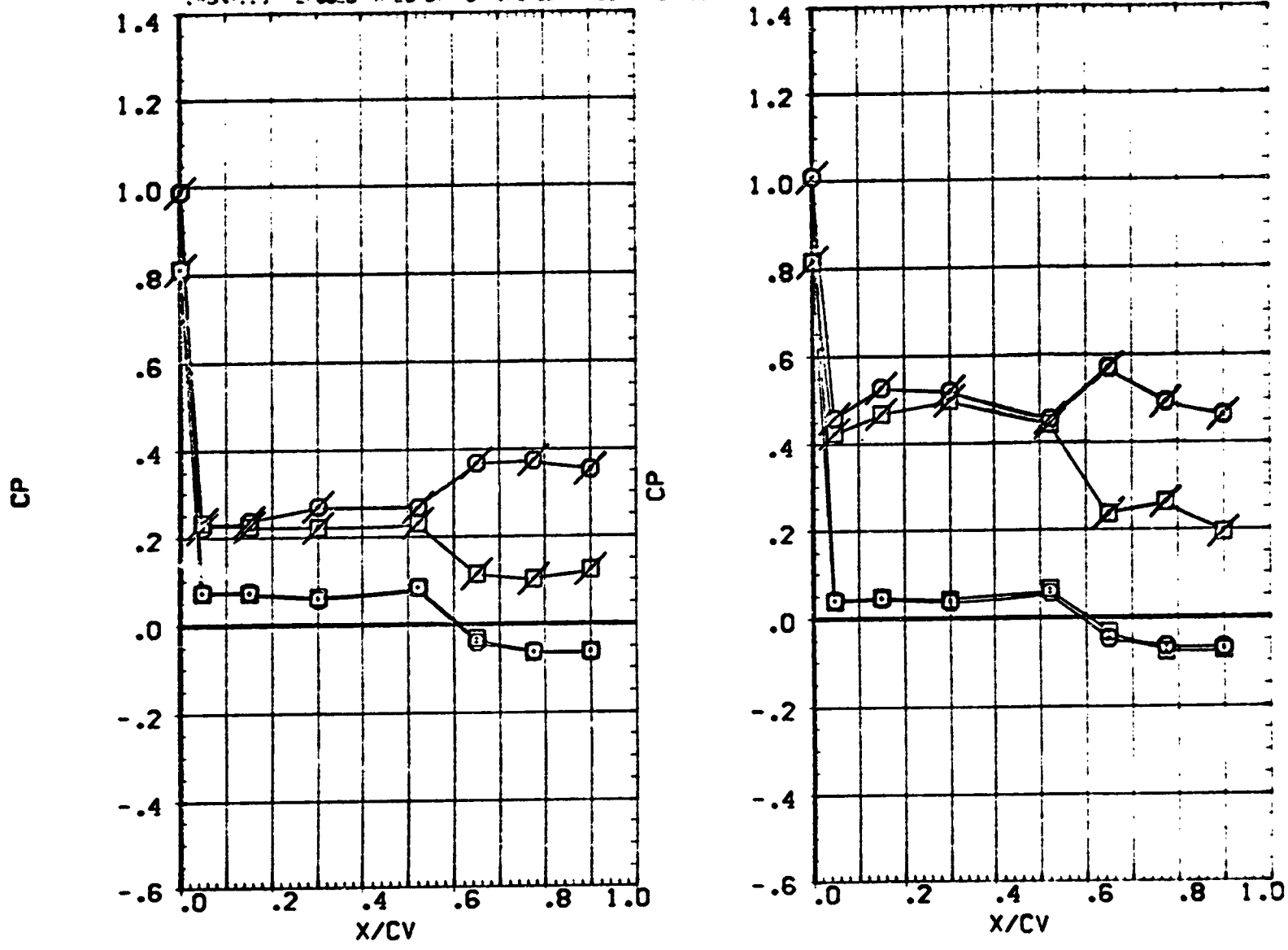
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETA	MACH
	.840	4.470	3.502
	.975	8.900	

PARAMETRIC VALUES

ALPHAT	-8.000	SPOILER	.000
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
OPEN		AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
FLAGGED		AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

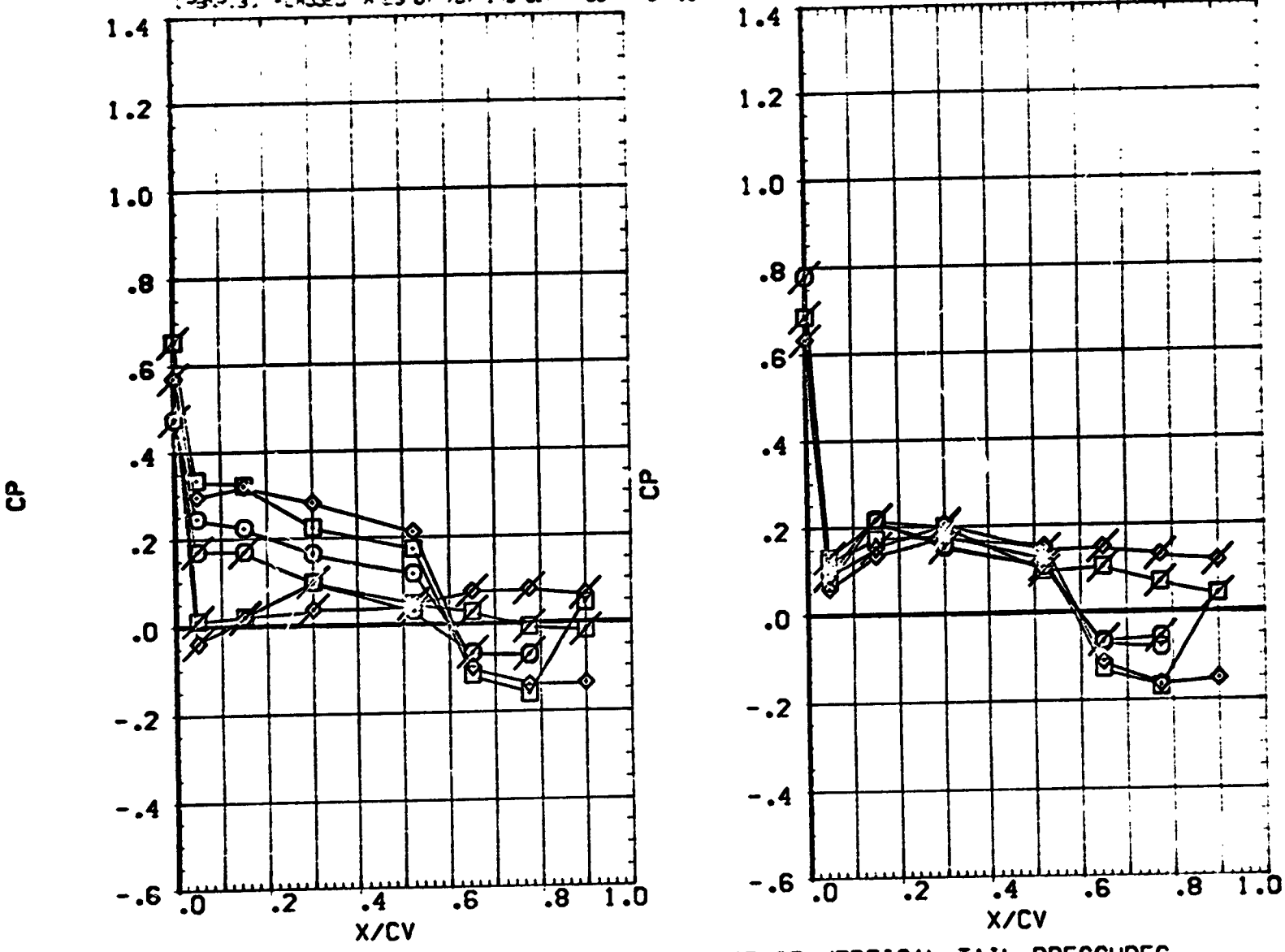
PAGE 900

SYMBOL	Y/B	BETA	MACH
○	.158	-4.180	2.498
□	.316	.000	
◇	.500		

PARAMETRIC VALUES

ALPHAT	.000	DBY/C	.500
RUDDER	-15.000	ELEVN	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
PSMV13	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
PSMP13	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



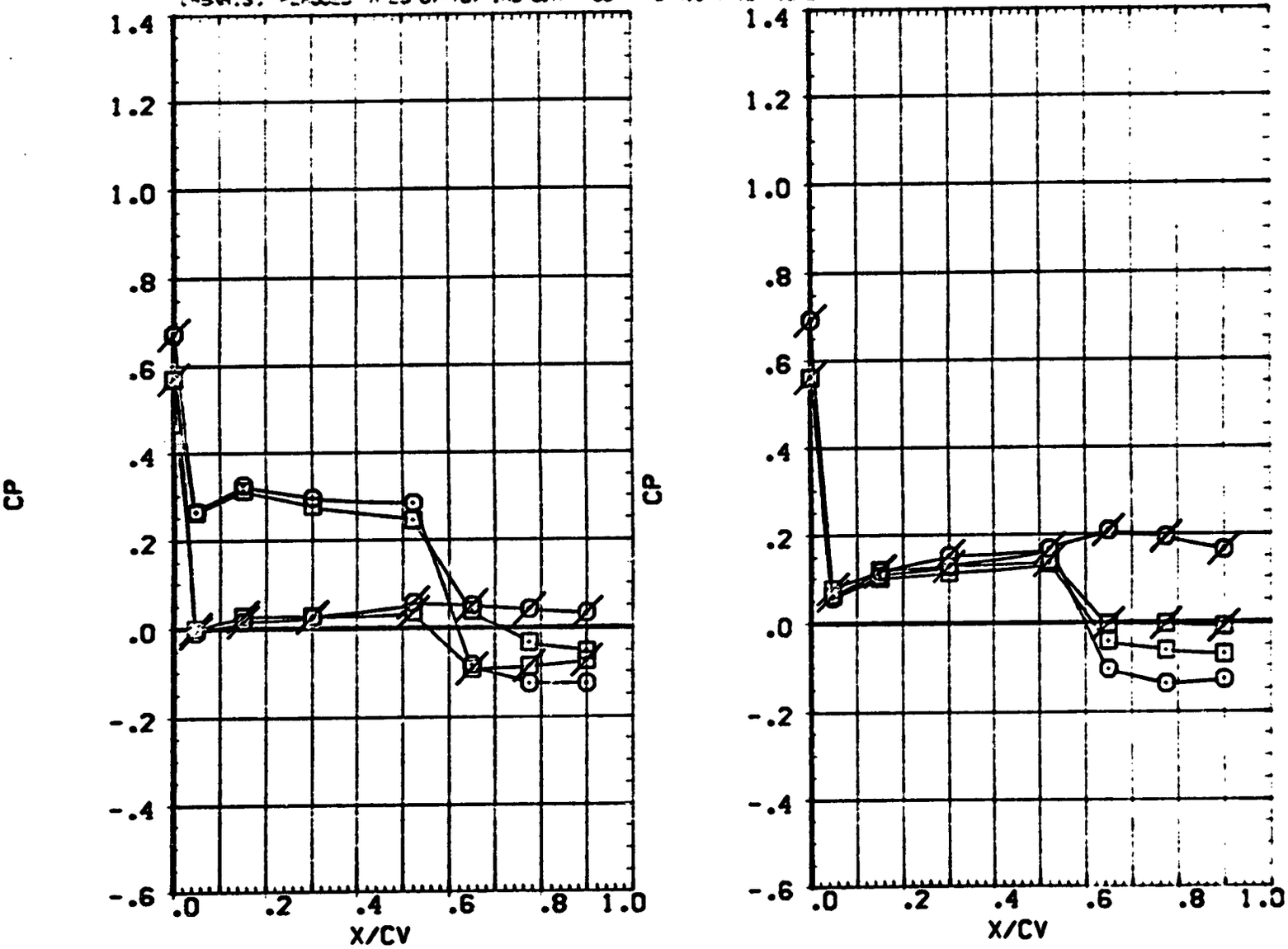
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Y/B	BETA	MACH
○	.840	-4.180	2.498
□	.925	.060	

PARAMETRIC VALUES

ALPHAT	.000	SPOILR	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PSVL:3)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(PSVR:3)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



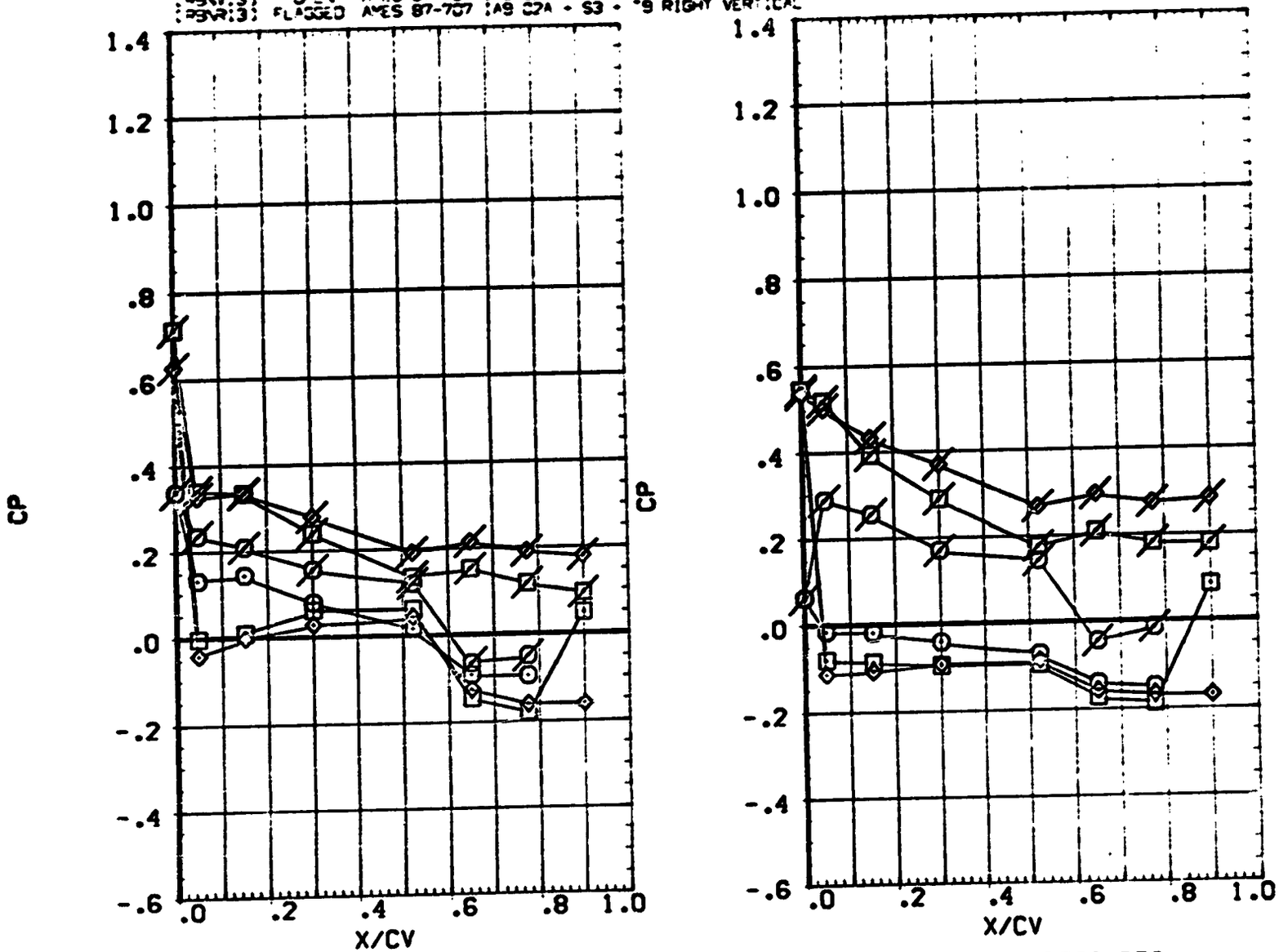
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETA	MACH
○	.158	4.300	2.498
□	.315	8.540	
◇	.600		

PARAMETRIC VALUES

ALPHA	.000	SPEED	.500
RUDDER	-15.000	ELEVON	.000
ROLLER	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
PSNV(3)	OPEN	AMES 87-707 A9 C2A + S3 + T9 LEFT VERTICAL
PSNR(3)	FLAGGED	AMES 87-707 A9 C2A + S3 + T9 RIGHT VERTICAL

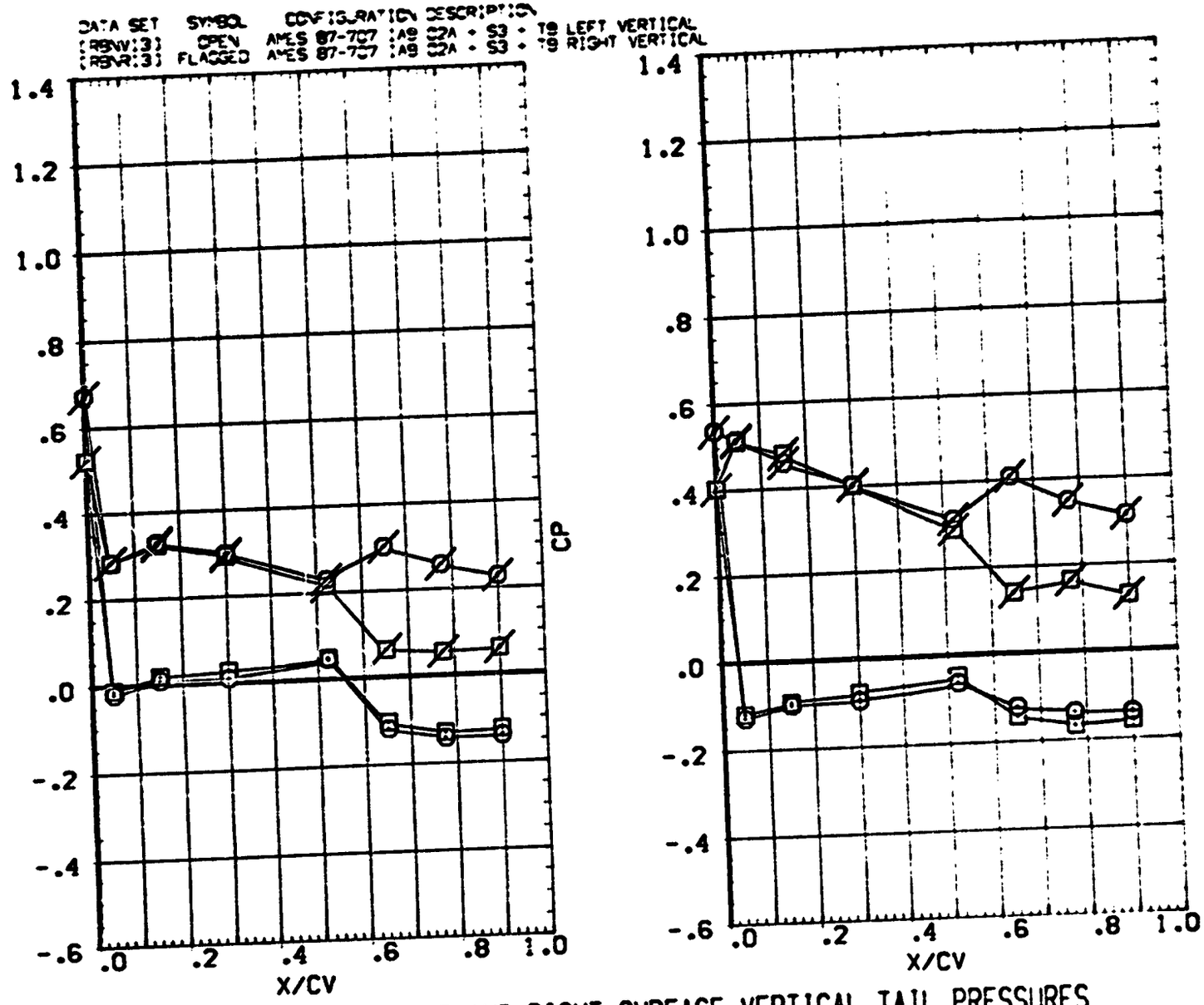


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETA	MACH
○	.840	4.300	2.498
□	.925	8.540	

PARAMETRIC VALUES

ALPHAT	.000	DBY/C	.500
RUDDER	-15.000	ELEVON	.000
ROLLER	.000		



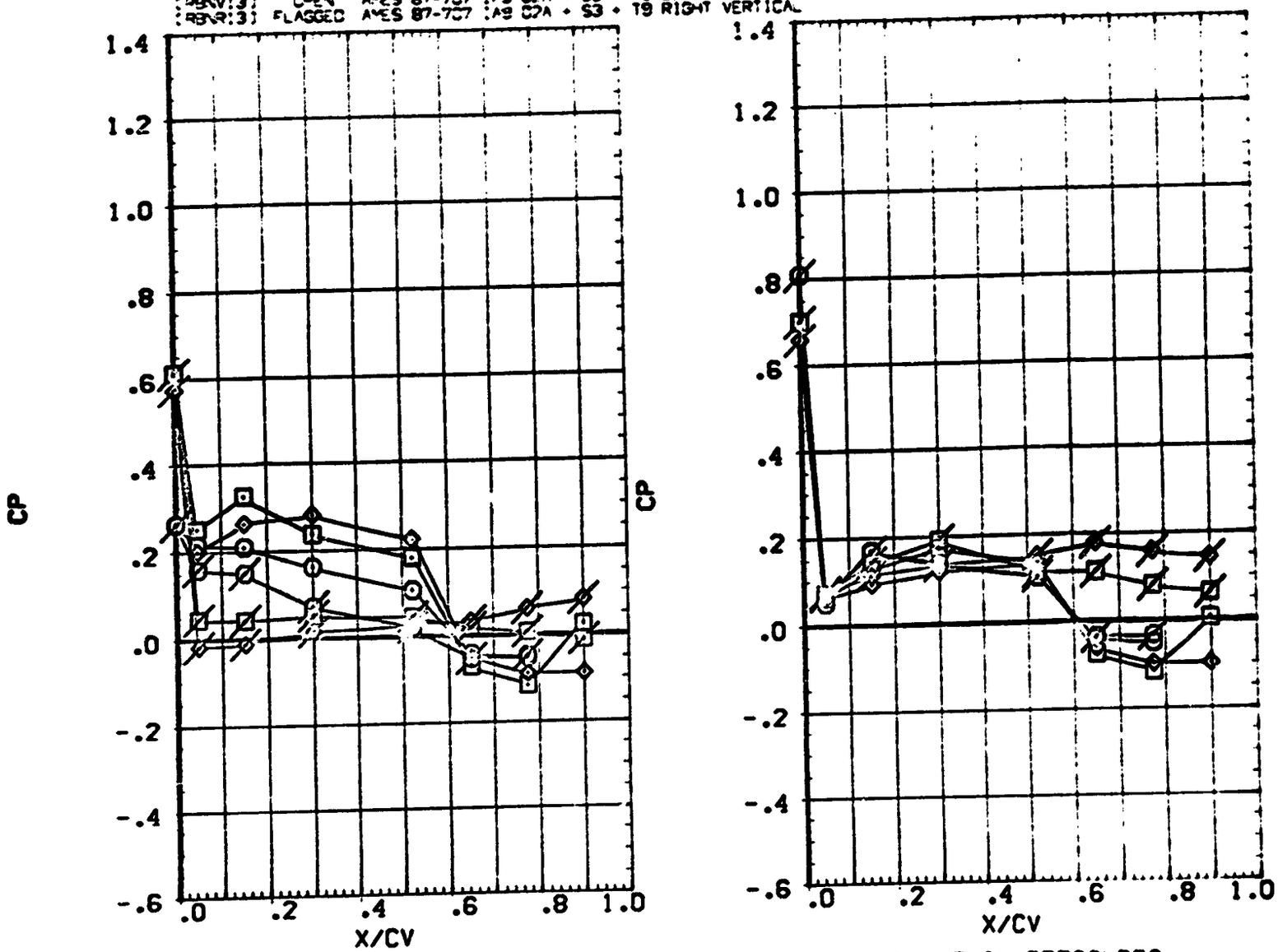
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.760	2.999
□	.316	.060	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	SPOILR	.500
RUDDER	-15.000	ELEVON	.000
ROLLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
RBNV(3) OPEN AMES 87-707 :A9 D2A + S3 + T9 LEFT VERTICAL
RBNR(3) FLAGGED AMES 87-707 :A9 D2A + S3 + T9 RIGHT VERTICAL



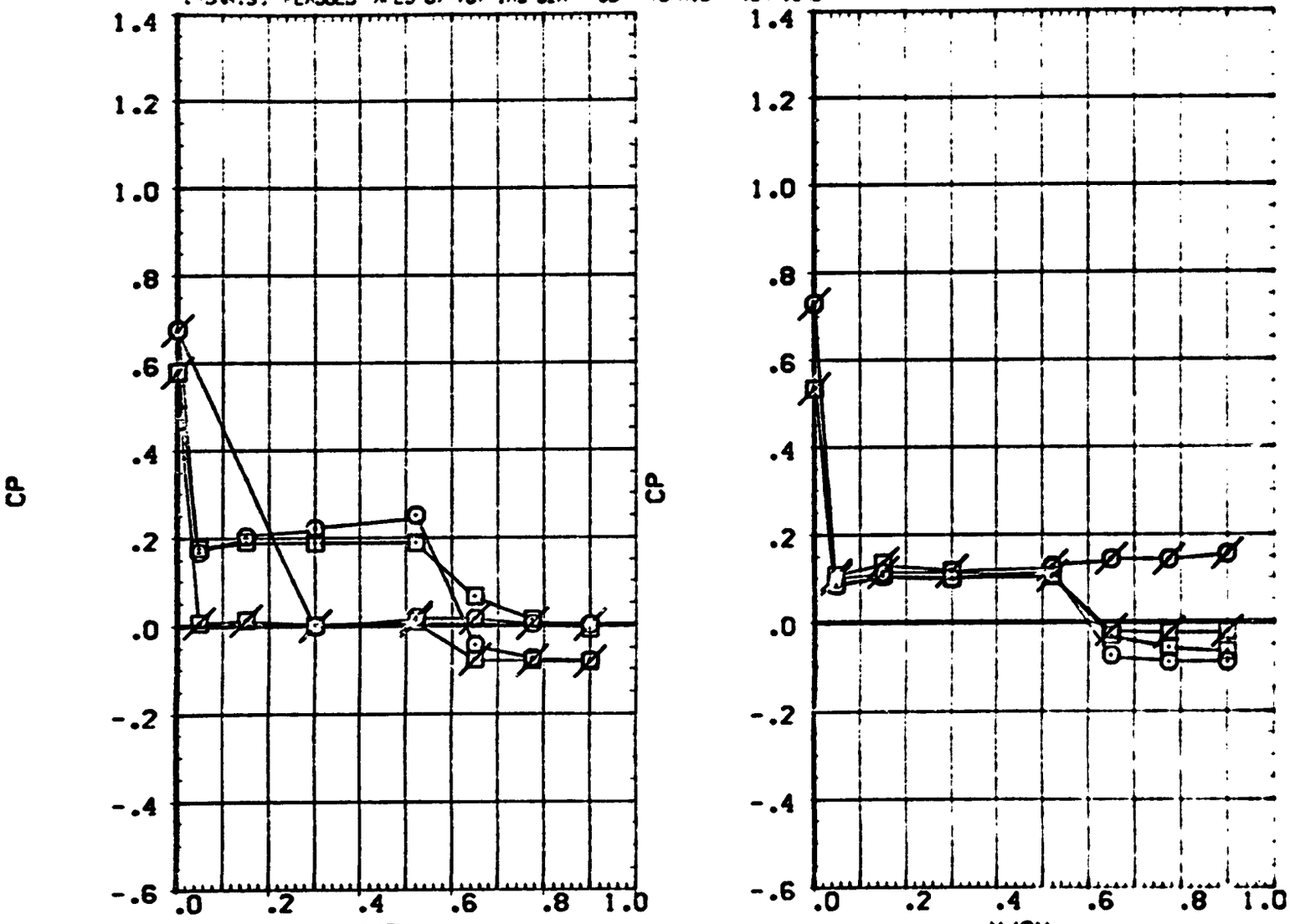
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BN	BETAT	MACH
○	.840	-4.260	2.999
□	.925	.060	

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNV:3)	OPEN	AMES 87-707 (A9 02A + S3 + T9 LEFT VERTICAL
(RBNR:3)	FLAGGED	AMES 87-707 (A9 02A + S3 + T9 RIGHT VERTICAL



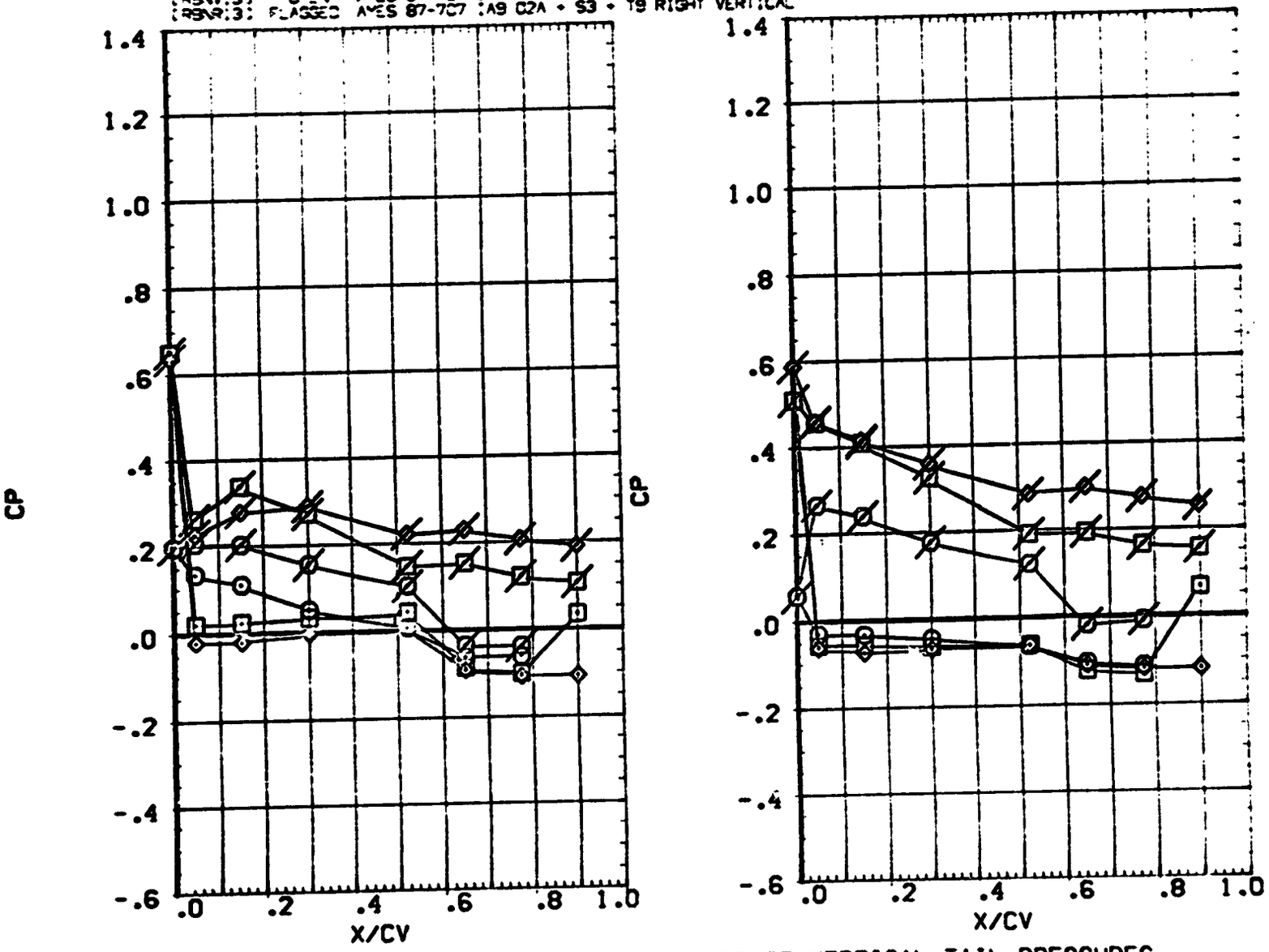
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETAT	MACH
○	.158	4.380	2.999
□	.316	8.690	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	SPOILR	.500
RUDDER	-15.000	ELEVON	.000
FLDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RSVV:3)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(RSVR:3)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



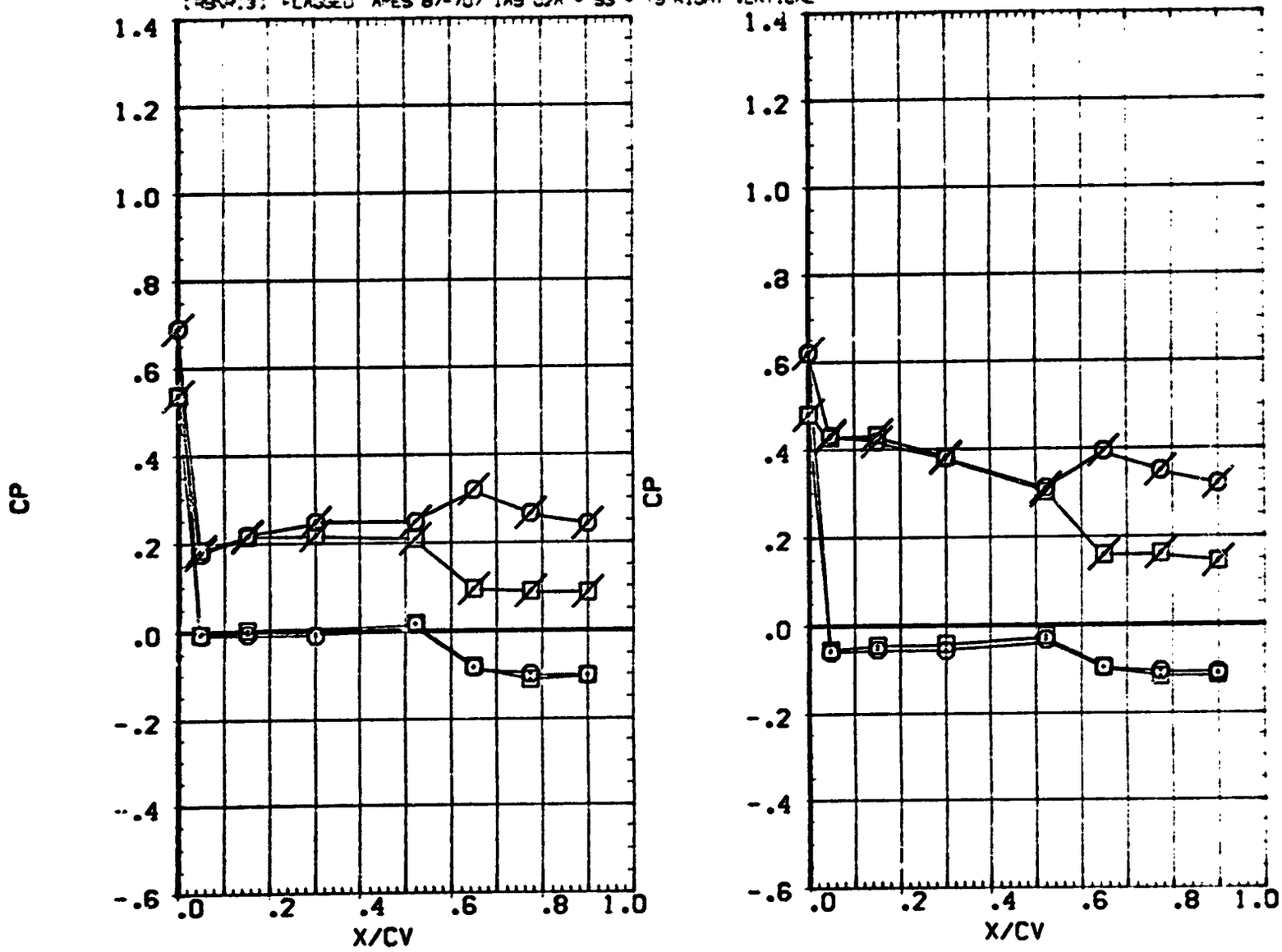
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETA	MACH
○	.840	4.380	2.599
□	.975	8.690	

PARAMETRIC VALUES

ALPHAT	.000	SPOILR	.000
RUDDER	-15.000	ELEVN	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RSNV:3)	OPEN	AMES 87-707 (A9 C2A + S3 + T9 LEFT VERTICAL
(RSNR:3)	FLAGGED	AMES 87-707 (A9 C2A + S3 + T9 RIGHT VERTICAL



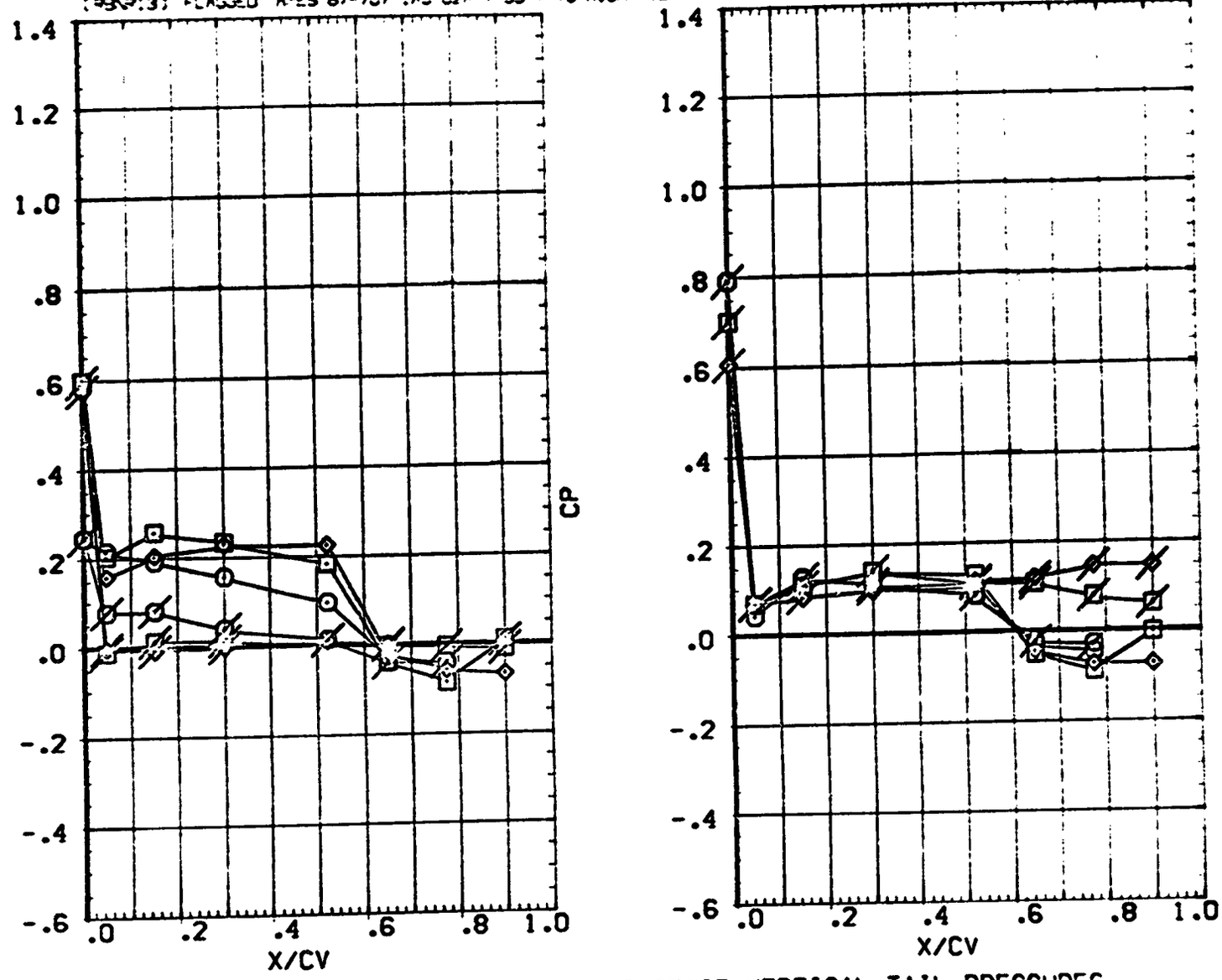
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B/	BETA	MACH
○	.158	-4.350	3.502
□	.315	.050	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	SB:C	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RSNV:3)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(RSNP:3)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



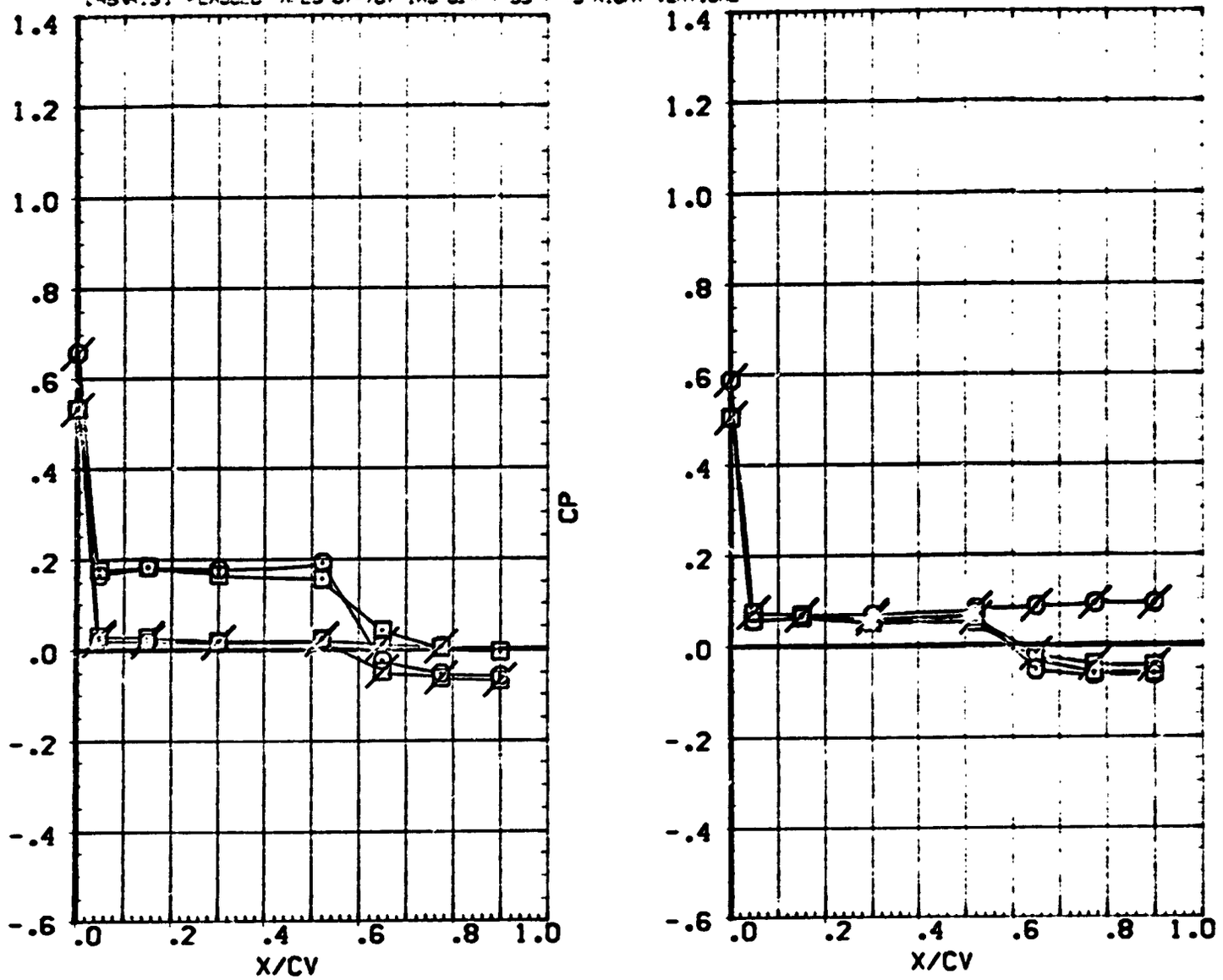
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETAT	MACH
○	.840	-4.350	3.502
□	.925	.050	

PARAMETRIC VALUES

ALPHAT	.000	SPEVC	.500
RUDDER	-15.000	ELEVON	.000
ROLLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RSVL:3)	OPEN	AMES 87-707 :A9 02A + S3 + T9 LEFT VERTICAL
(RSVR:3)	FLAGGED	AMES 87-707 :A9 02A + S3 + T9 RIGHT VERTICAL



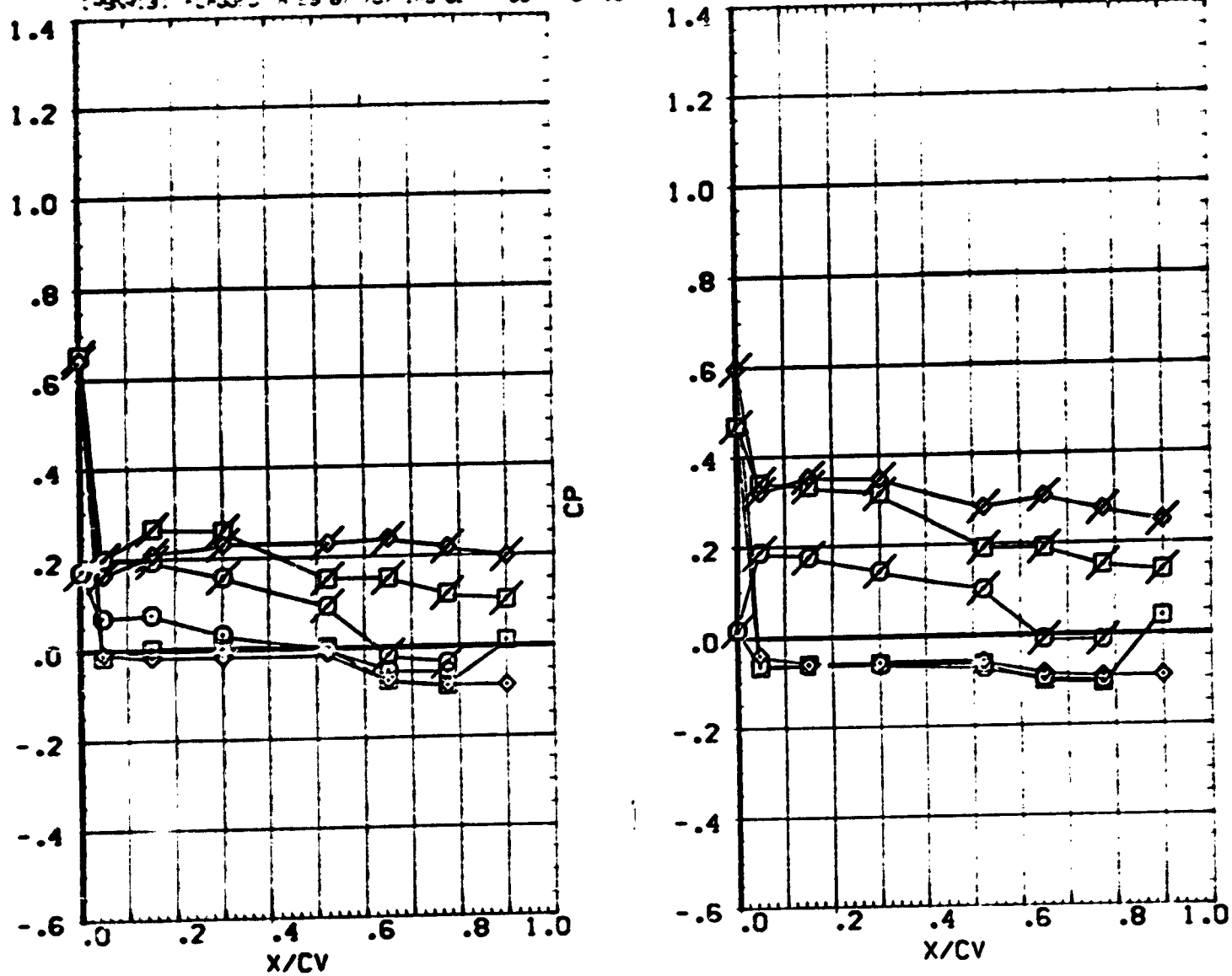
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETA	MACH
○	.158	4.450	3.502
□	.316	8.940	
◇	.500		

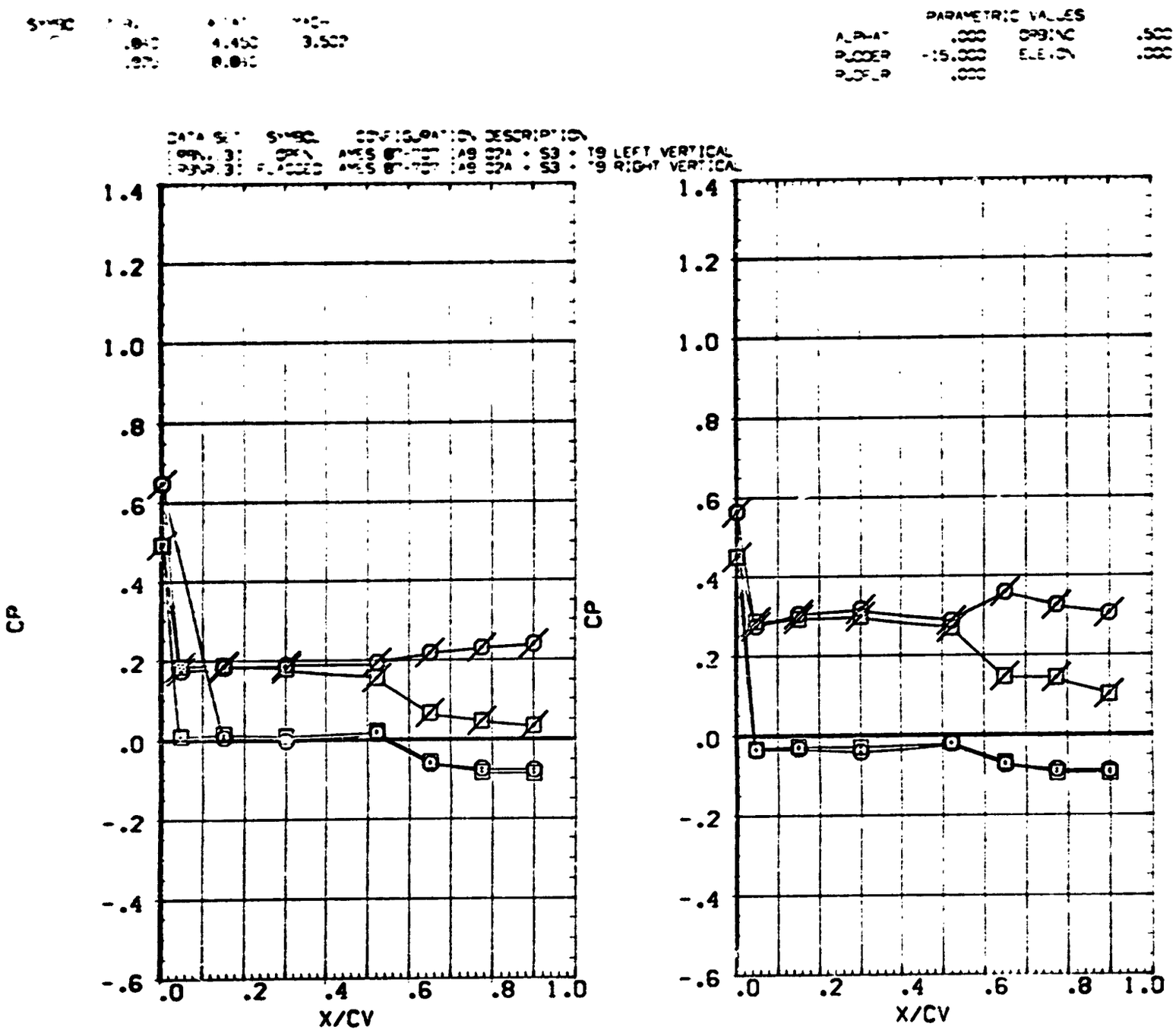
PARAMETRIC VALUES

ALPHA	.000	SPEED	.500
RUDDER	-15.000	ELEVON	.000
ROLL	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
PSNV:3:	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
PSNV:3:	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



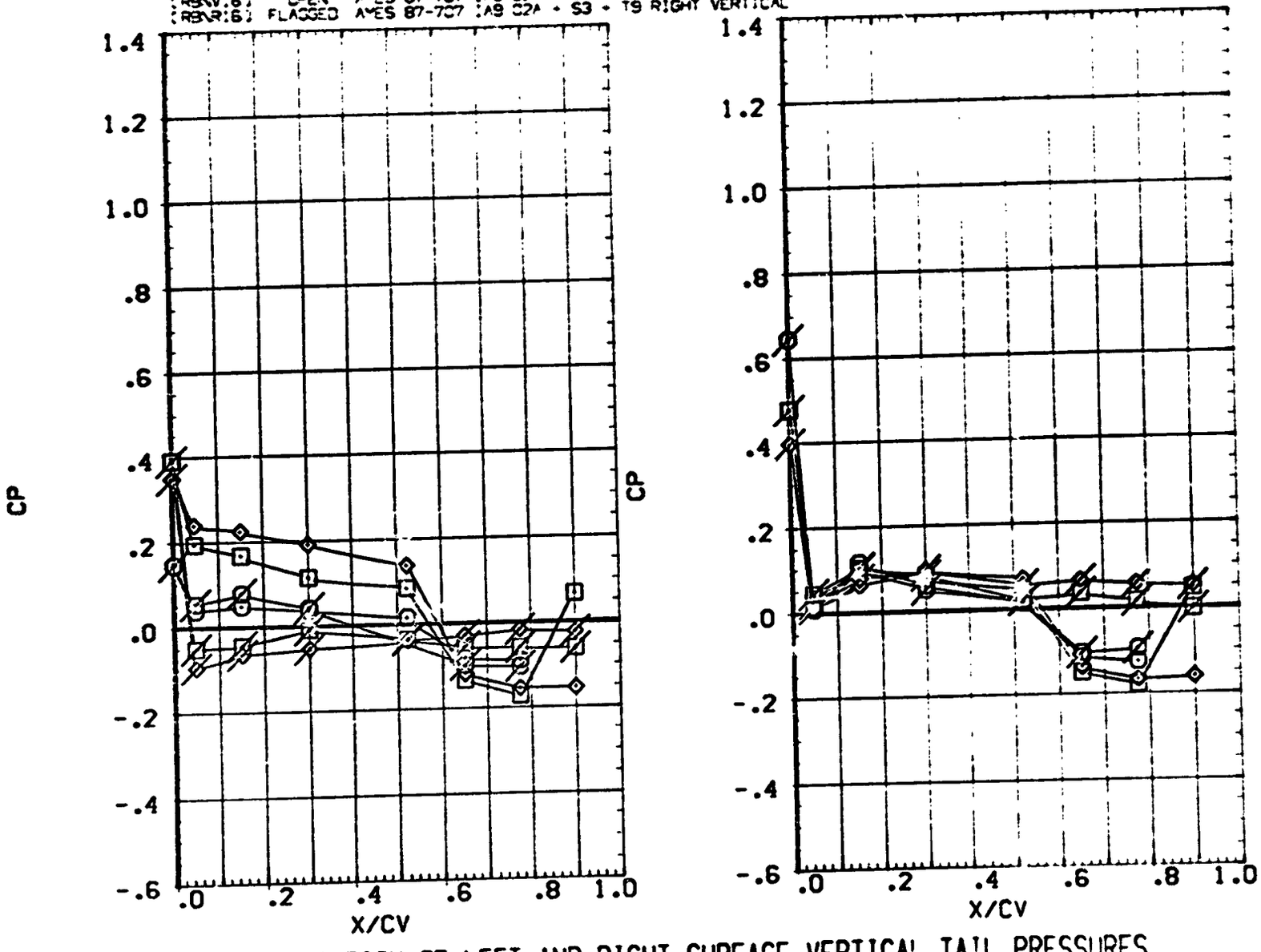
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.160	2.498
□	.316	.060	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	SPOILR	.500
RUDDER	-15.000	ELEVON	.000
ROLL	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNV:6)	OPEN	AMES 87-707 :A9 S2A + S3 + T9 LEFT VERTICAL
(RBNR:6)	FLAGGED	AMES 87-707 :A9 S2A + S3 + T9 RIGHT VERTICAL



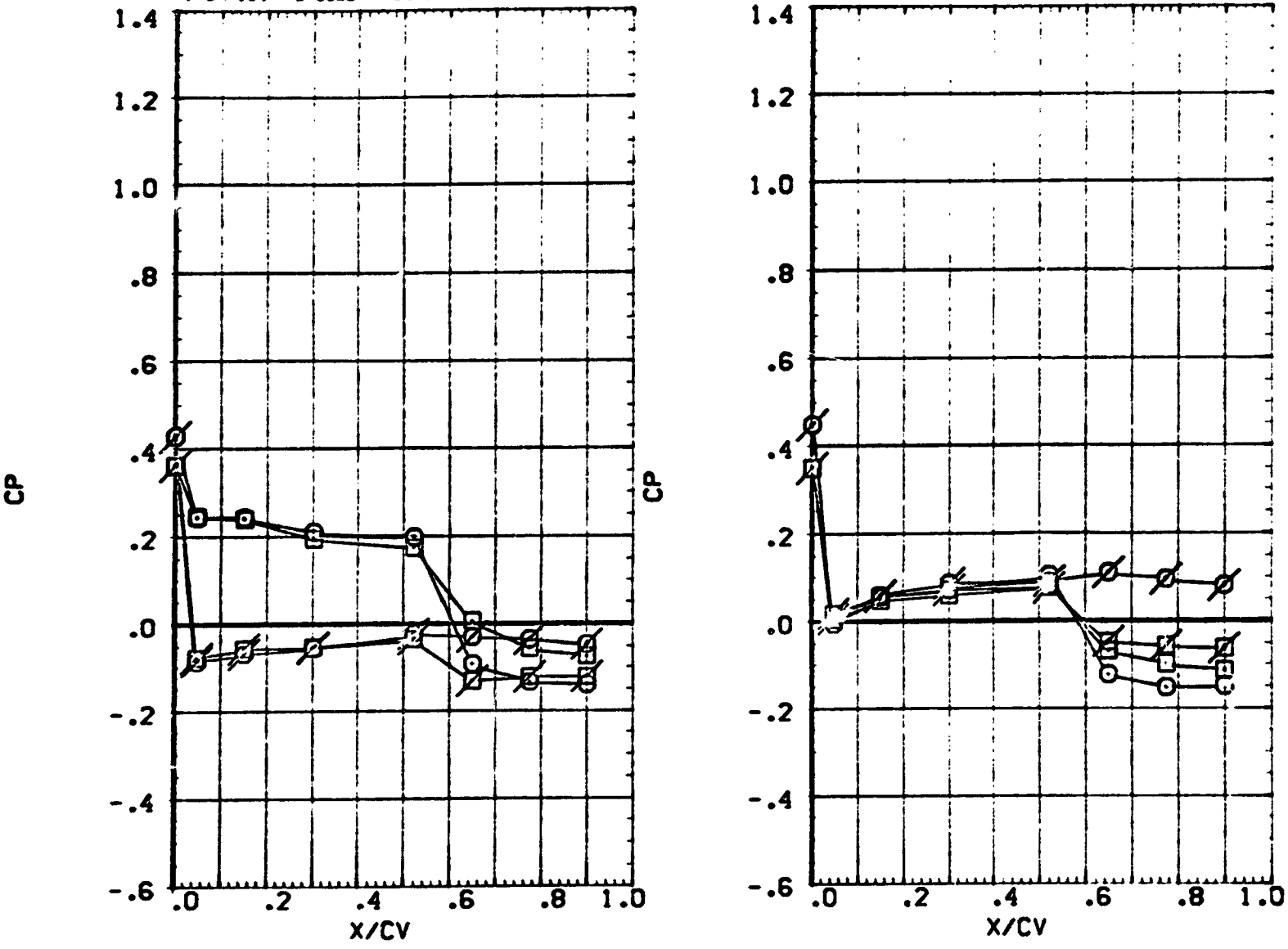
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA	MACH
○	.840	-4.160	2.498
□	.975	.060	

PARAMETRIC VALUES

ALPHA	8.000	SPOILR	.500
RUDDER	-15.000	ELEVON	.000
FLAP	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNV16)	OPEN	AMES 87-707 (A9 C2A + S3 + T9 LEFT VERTICAL
(RBNR16)	FLAGGED	AMES 87-707 (A9 C2A + S3 + T9 RIGHT VERTICAL



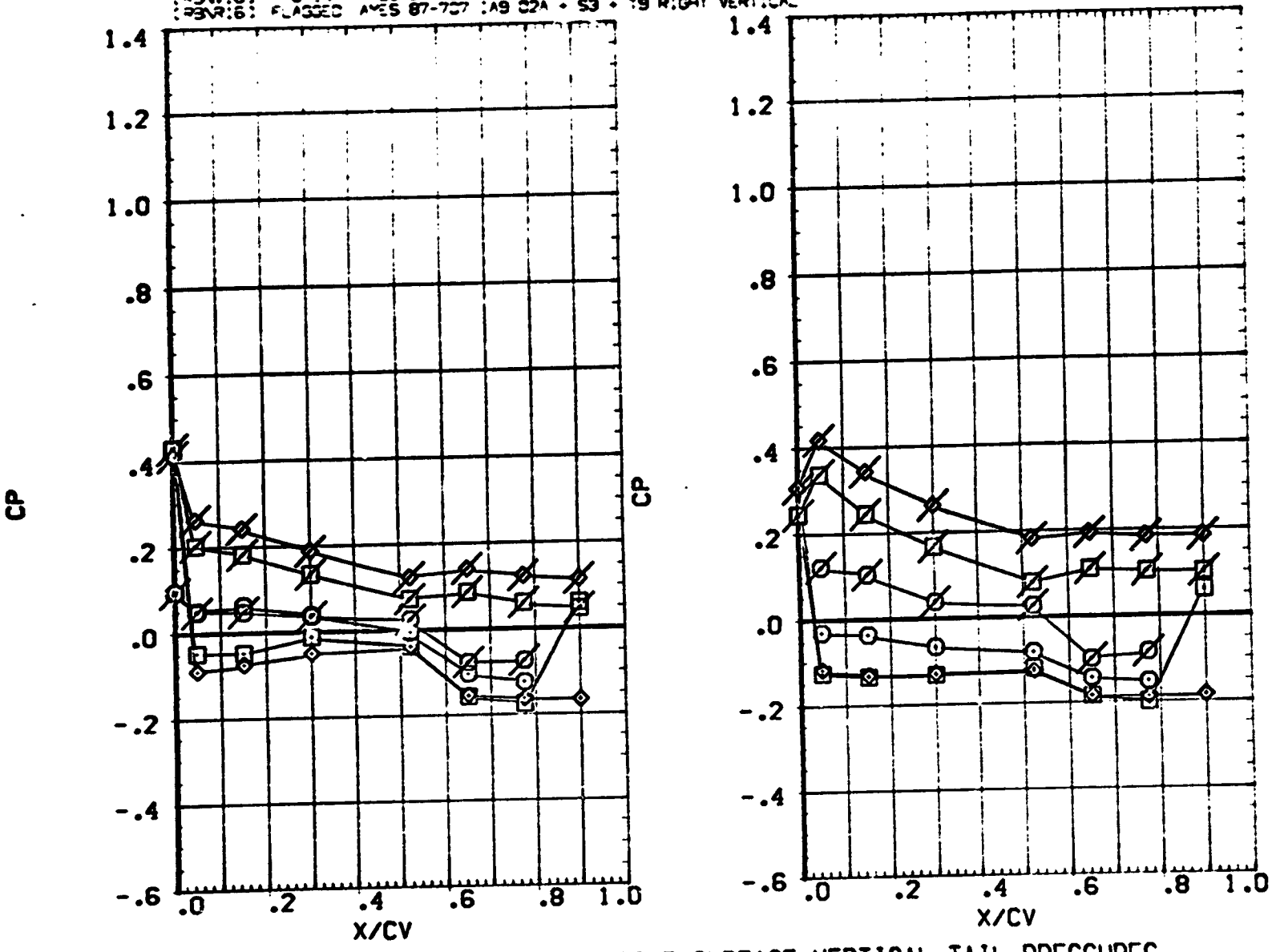
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETA	MACH
○	.158	4.330	2.498
□	.316	8.600	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	DBYINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
PSNV16	OPEN	AMES 87-707 :A9 B2A + S3 + T9 LEFT VERTICAL
PSNR16	FLAGGED	AMES 87-707 :A9 B2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA	MACH
	.840	4.330	2.498
	.935	8.600	

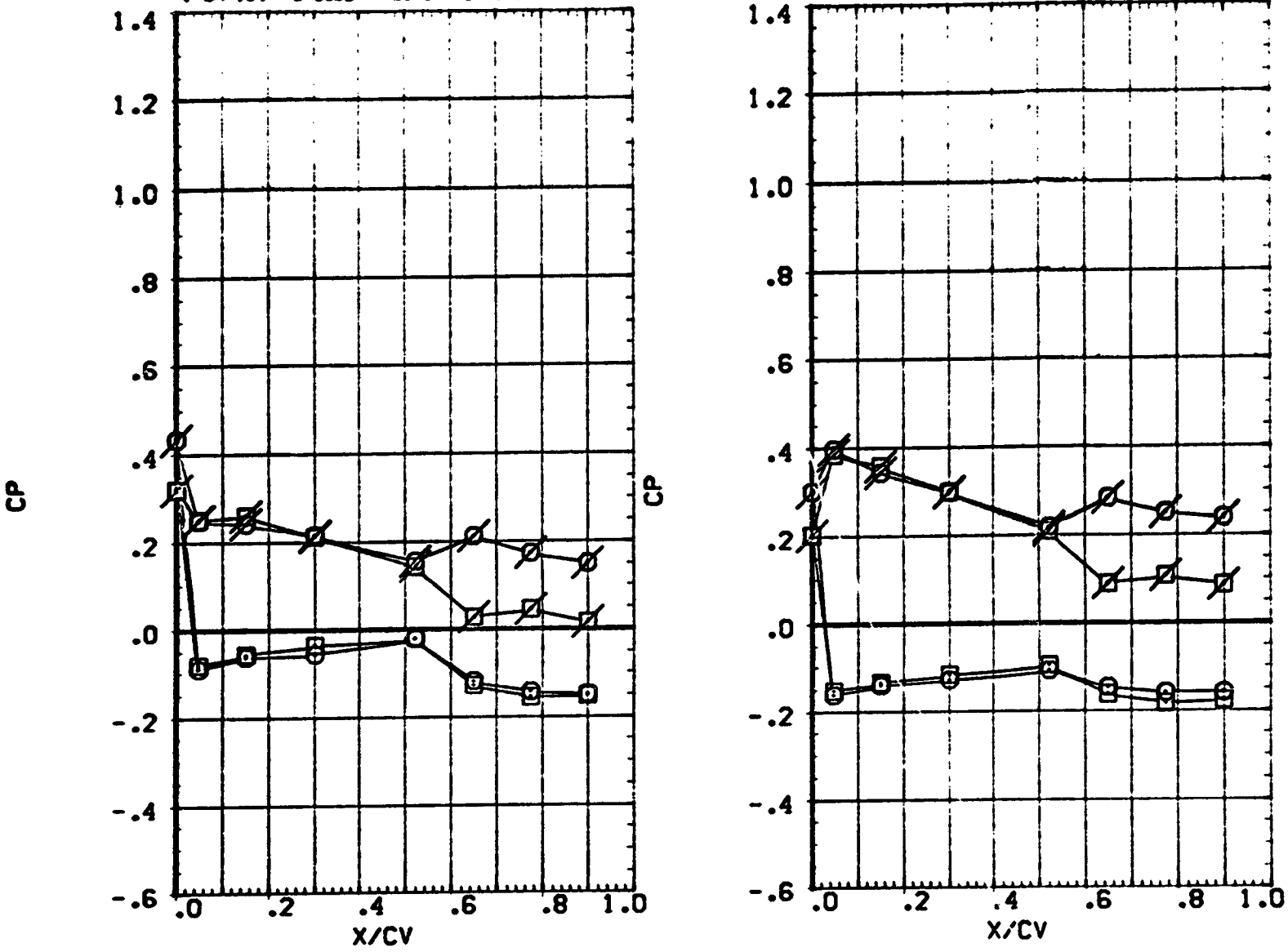
PARAMETRIC VALUES

ALPHA	8.000	DBI:NC	.500
RUDDER	-15.000	ELEVON	.000
ROLLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBNV:6) OPEN AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL

(RBNP:6) FLAGGED AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



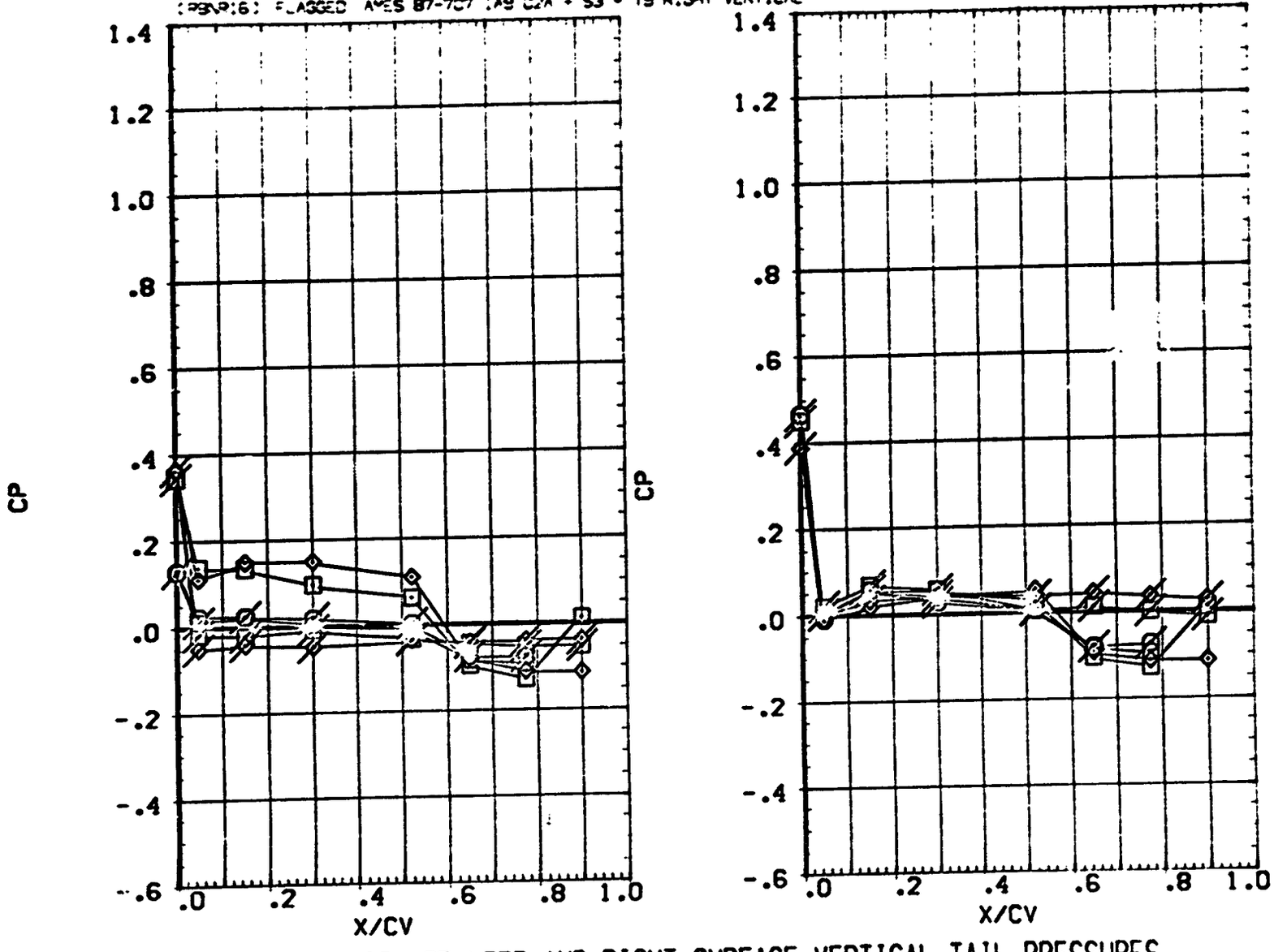
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA	MACH
□	.158	-4.730	2.999
△	.316	.060	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	DRGINC	.500
RUDDER	-15.000	ELEVON	.000
ROLLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
PSNV16	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
PSNR16	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



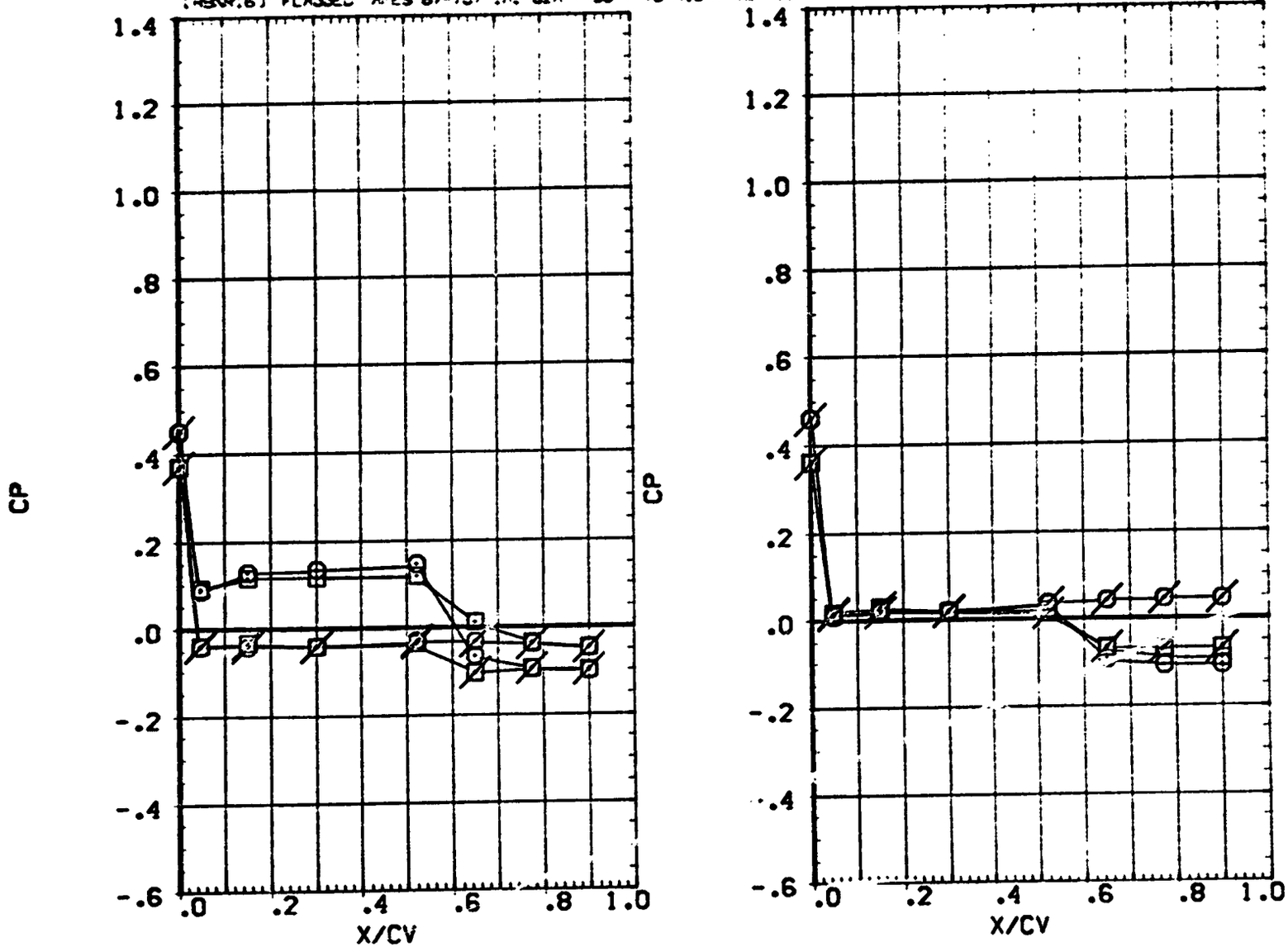
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETAT	MACH
○	.840	-4.230	2.999
□	.925	.060	

PARAMETRIC VALUES

ALPHAT	8.000	DRBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDLR	.000		

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
(RSNV16)	OPEN	AMES 87-707	A9 C2A + S3 + T9 LEFT VERTICAL
(RSNR16)	FLAGGED	AMES 87-707	A9 C2A + S3 + T9 RIGHT VERTICAL



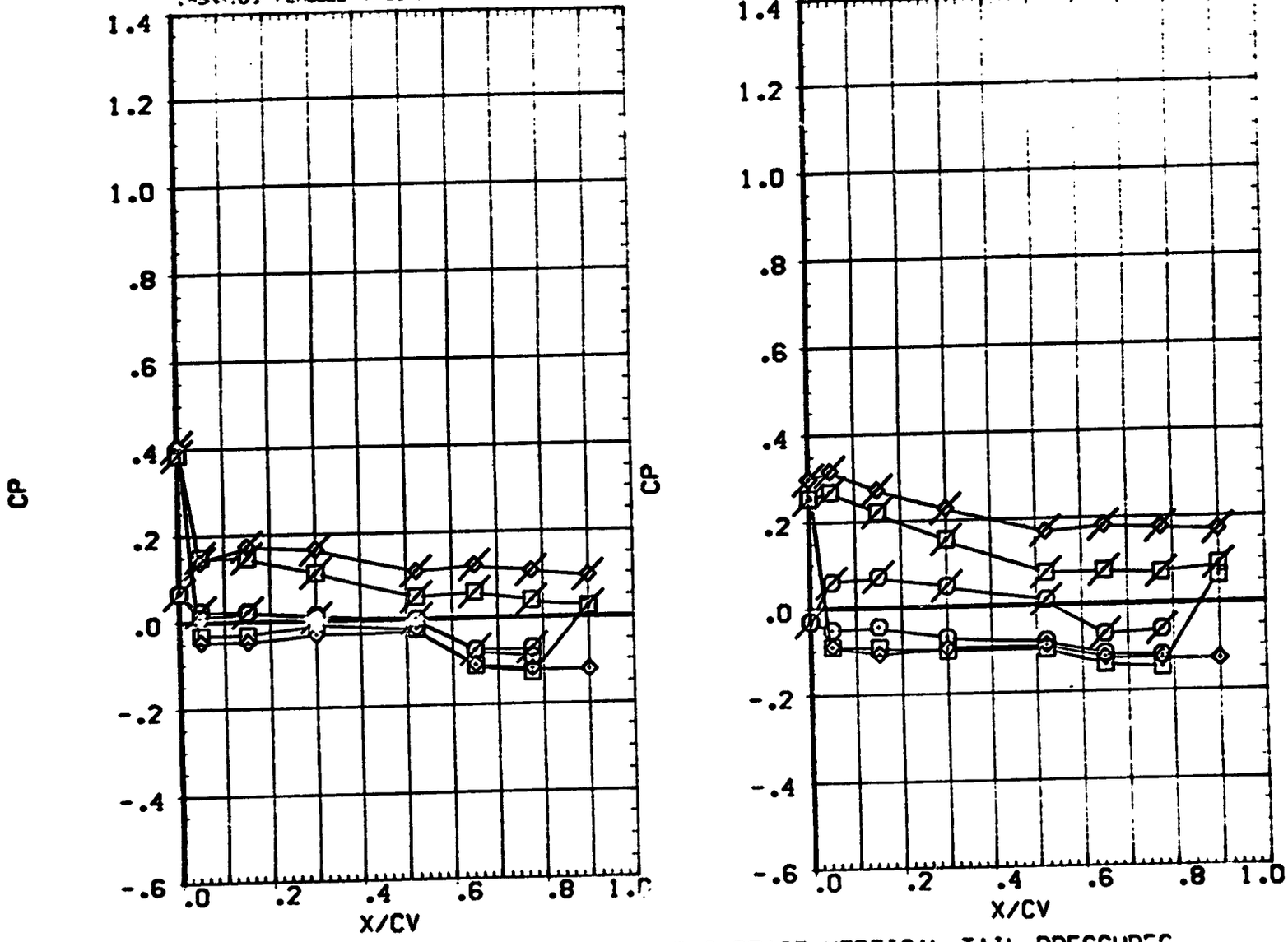
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	4.400	7.999
□	.316	8.750	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	SPRINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RSNV:6)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(RSNR:6)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



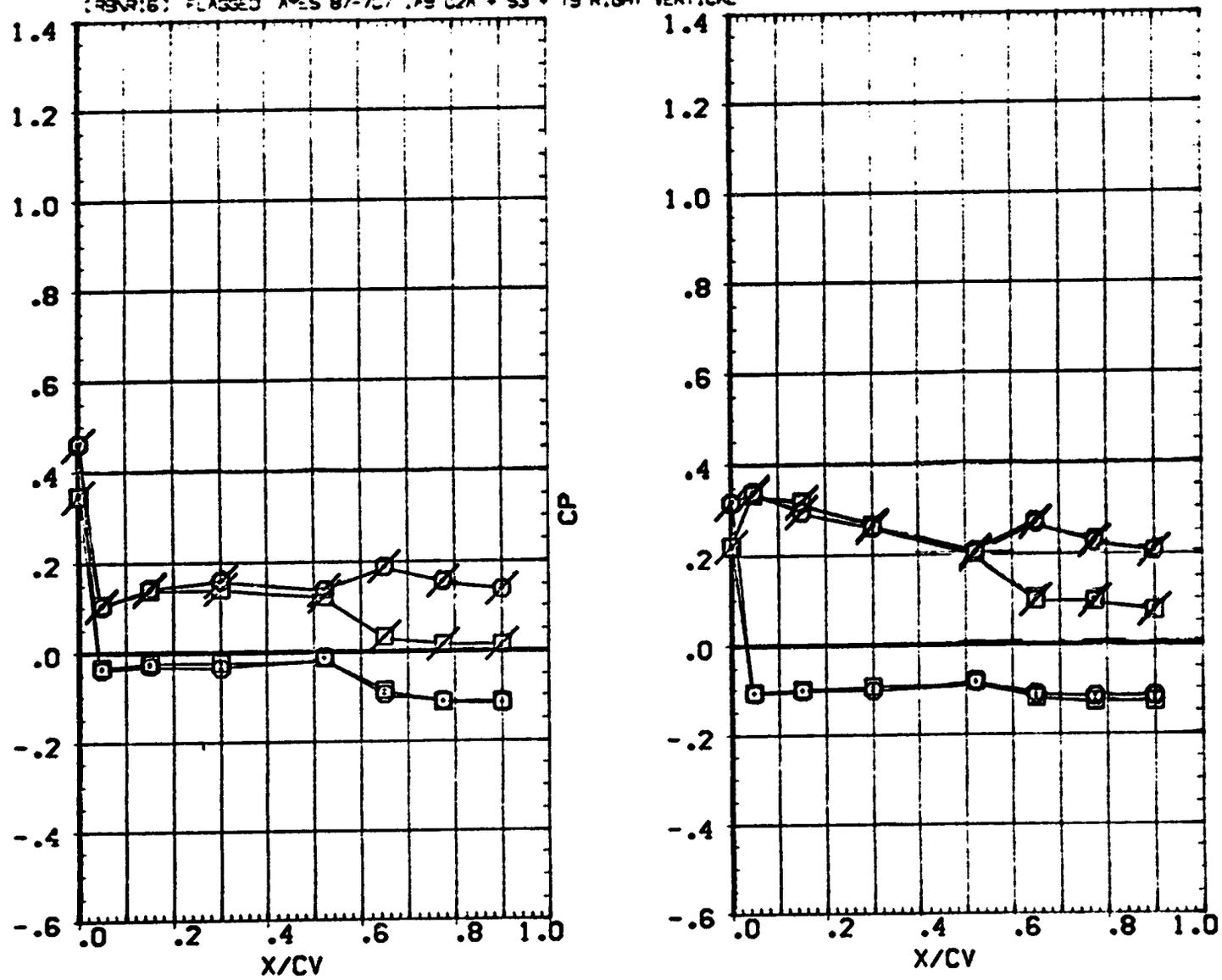
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETA	MACH
	.840	4.400	2.999
	.975	8.750	

PARAMETRIC VALUES

ALPHA	8.000	DR/NC	.500
RUDDER	-15.000	ELEVON	.000
ROLL	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RSNV:6)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(RSNR:6)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



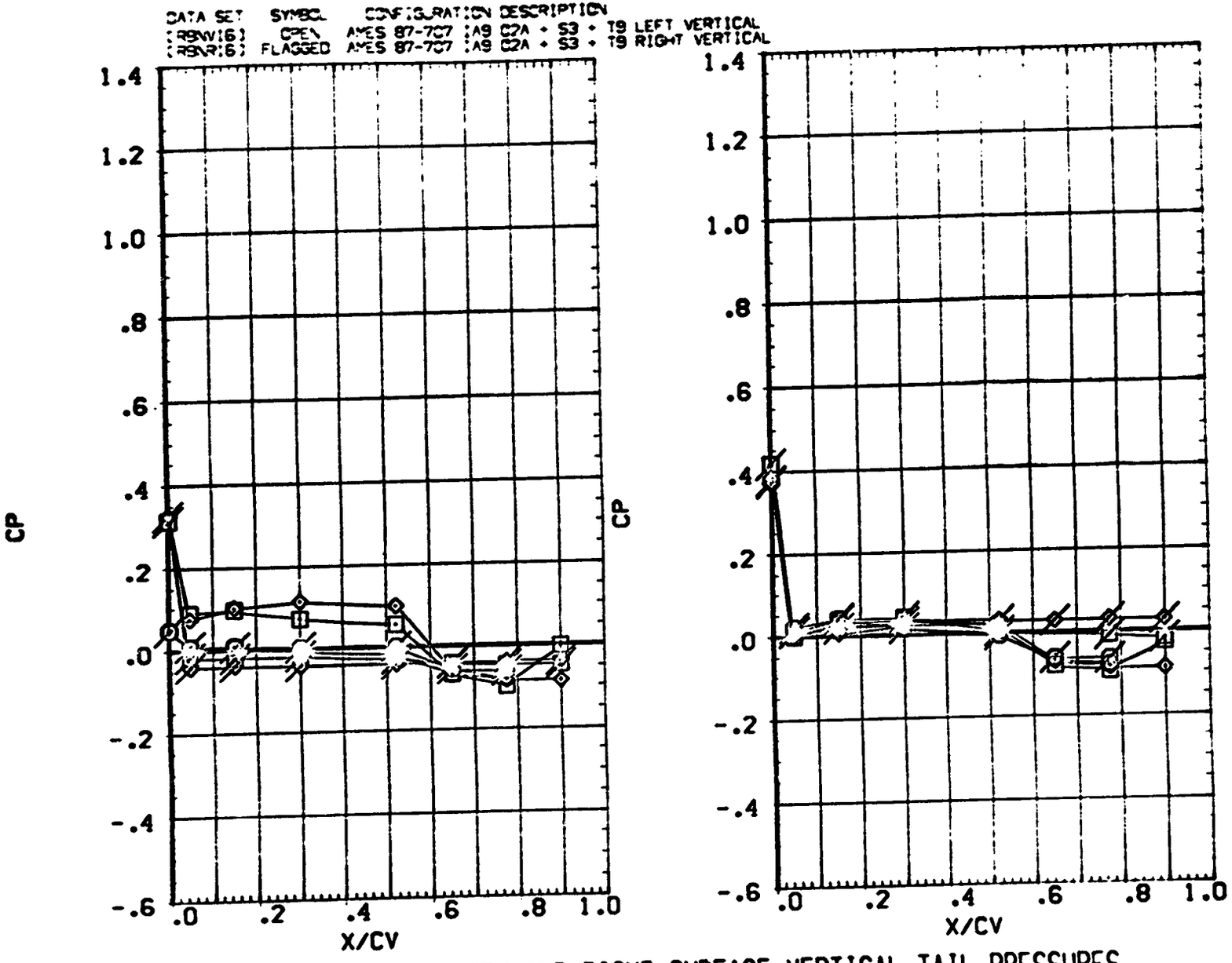
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.320	3.502
□	.316	.050	
◇	.600		

PARAMETRIC VALUES

ALPHA	8.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDLR	.000		

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
(RBWV16)	OPEN	AMES 87-707	A9 C2A + S3 + T9 LEFT VERTICAL
(RBVR16)	FLAGGED	AMES 87-707	A9 C2A + S3 + T9 RIGHT VERTICAL



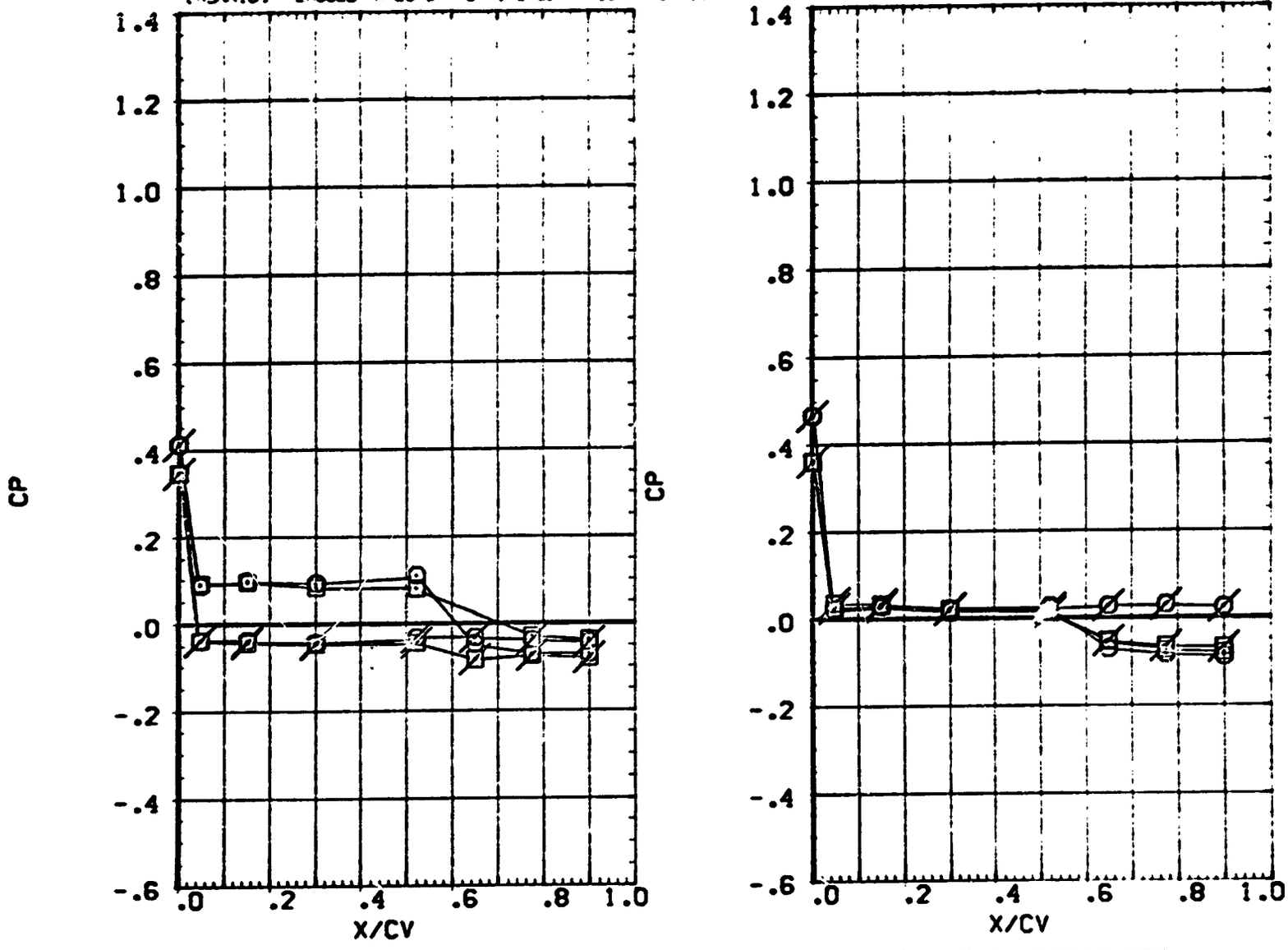
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B.	BETA	MACH
○	.840	-4.370	3.502
□	.925	.000	

PARAMETRIC VALUES

ALPHA	8.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[RBNV16]	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
[RBNR16]	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



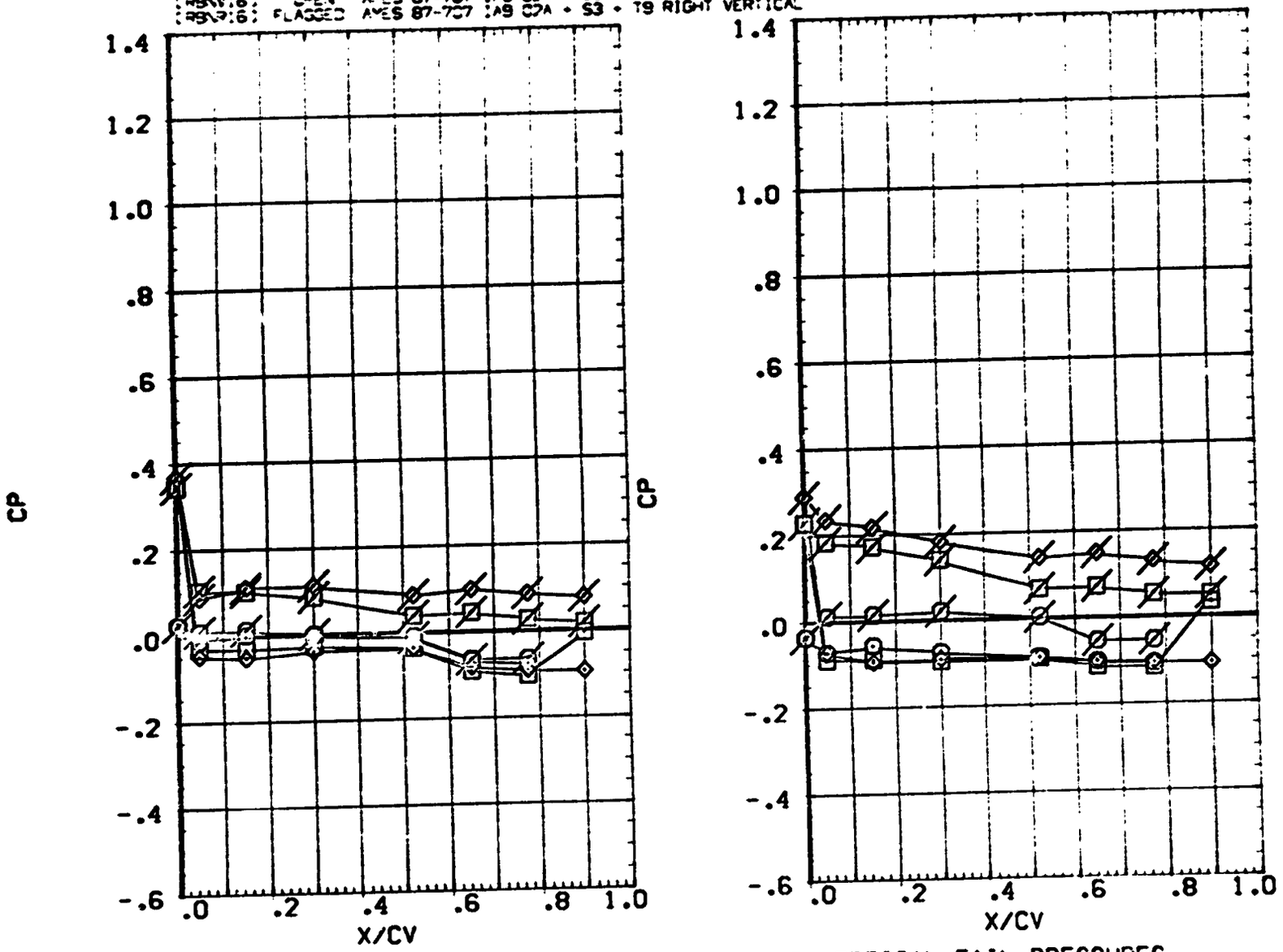
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETAT	MACH
○	.158	4.470	3.502
□	.316	8.900	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	DBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNV16)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(RBNR16)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



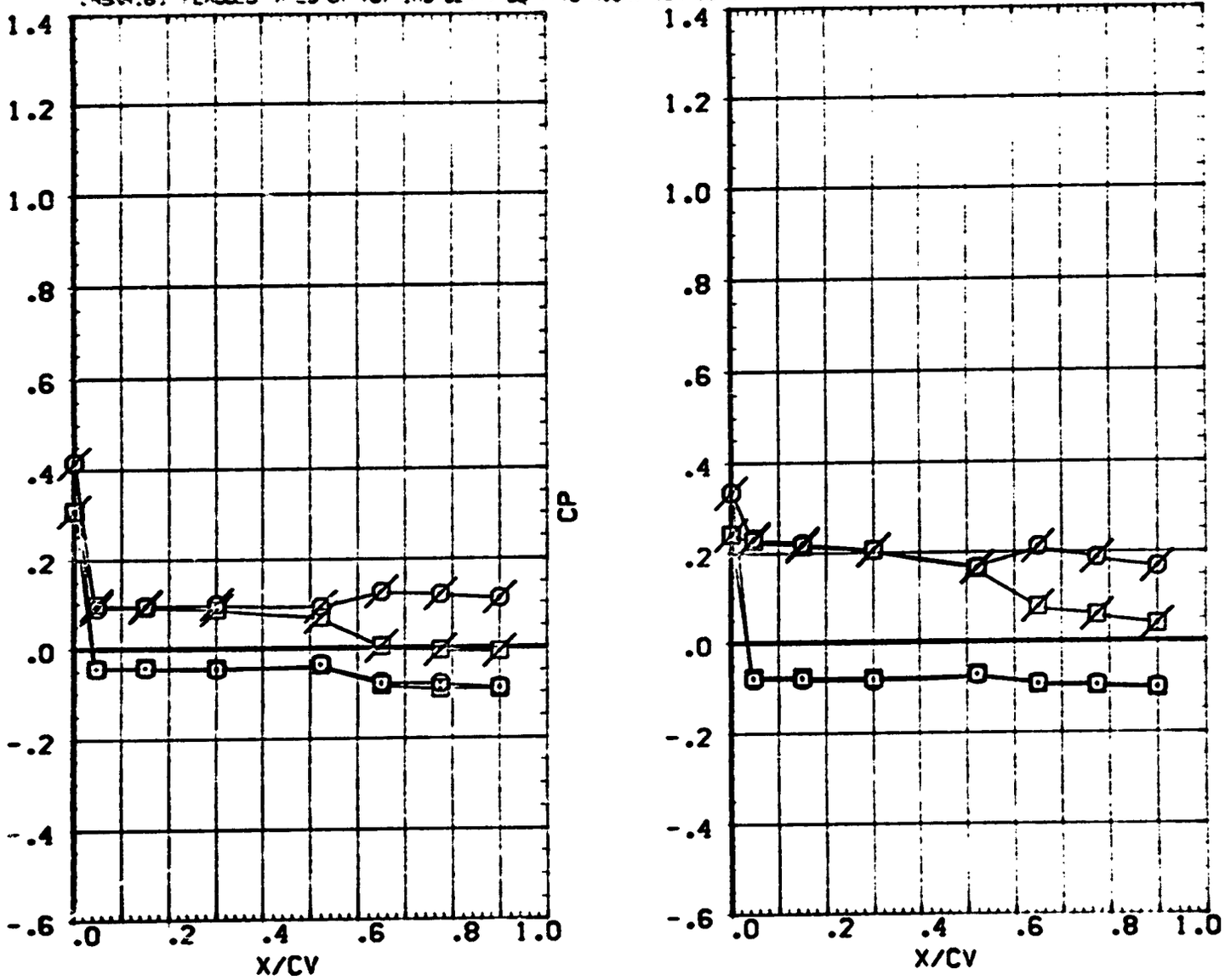
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETAT	MACH
○	.840	4.470	3.500
	.925	8.900	

PARAMETRIC VALUES

ALPHAT	8.000	DPSINC	.500
RUDDER	-15.000	ELEVON	.000
ROLLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RSVL:6)	OPEN	AMES 87-707 :A9 D2A + S3 + T9 LEFT VERTICAL
(RSVR:6)	FLAGGED	AMES 87-707 :A9 D2A + S3 + T9 RIGHT VERTICAL



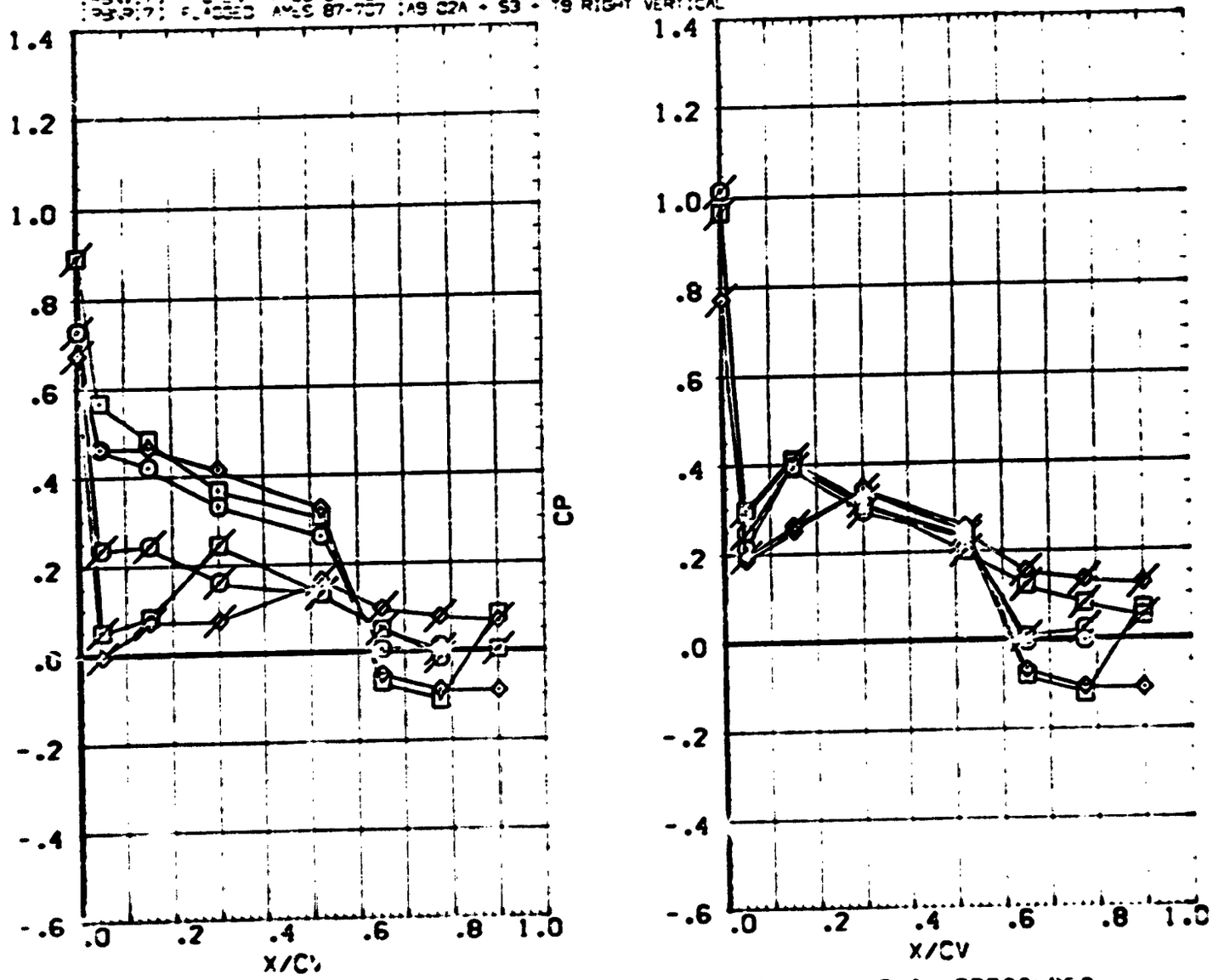
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETA	MACH
	.158	-4.160	2.499
	.316	.000	
◇	.500		

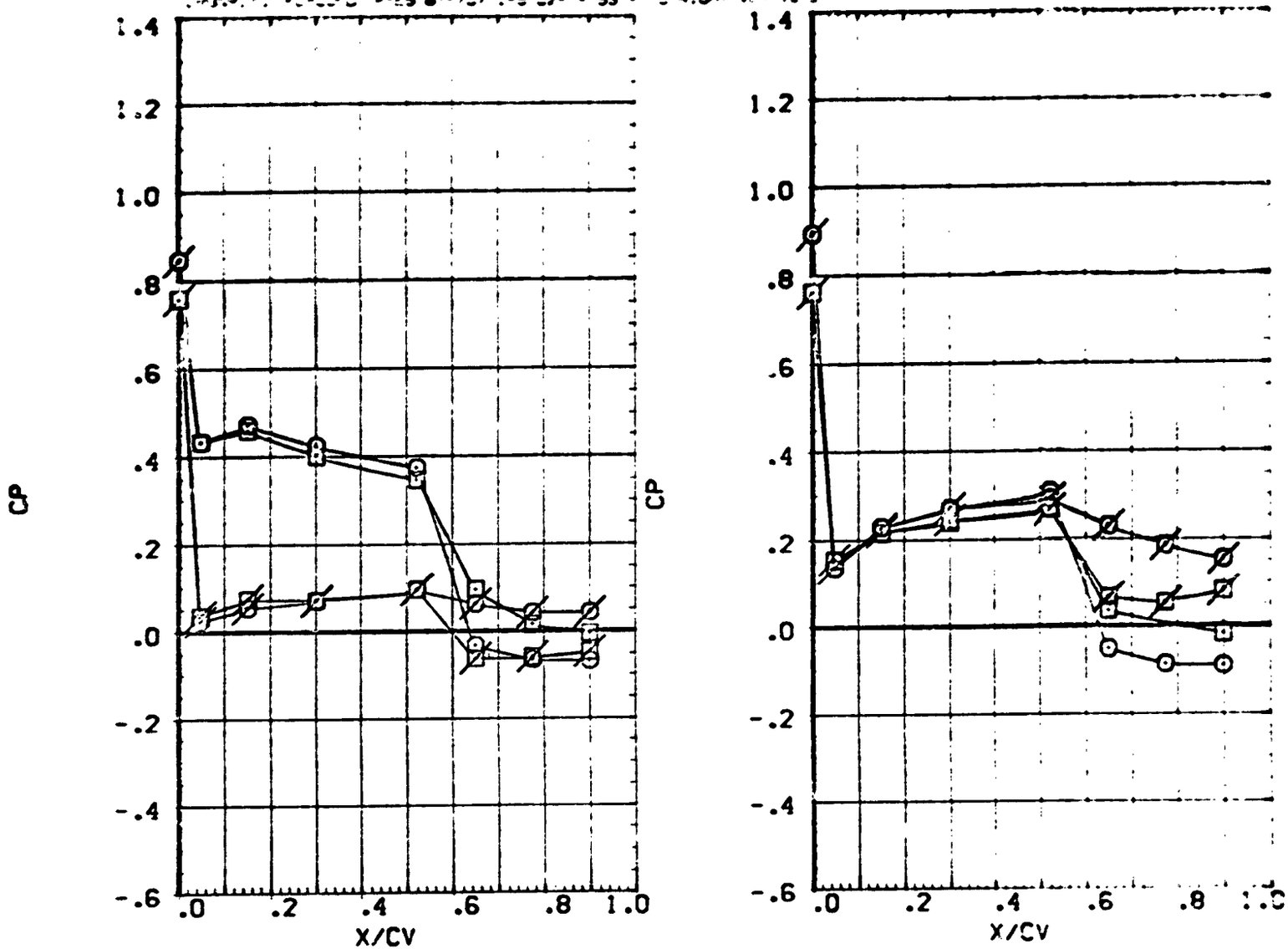
PARAMETRIC VALUES

ALPHA	-6.000	SPEING	.500
RUDDER	-10.000	ELEVON	.000
AILERON	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[illegible]	OPEN	AMES 87-707 :A9 02A + S3 + T9 LEFT VERTICAL
[illegible]	FILLED	AMES 87-707 :A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



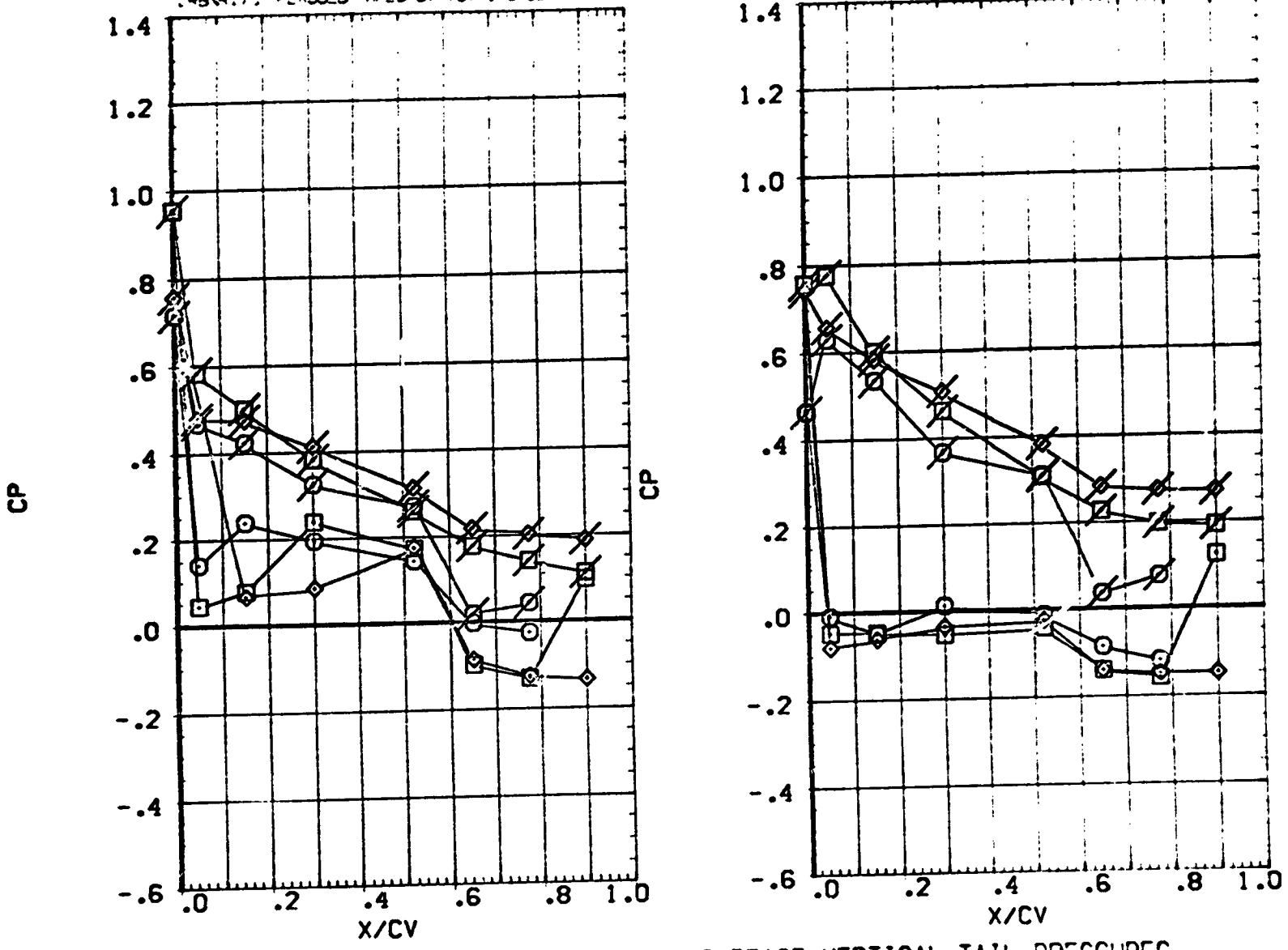
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	4.330	2.499
□	.316	8.600	
◇	.600		

PARAMETRIC VALUES

ALPHAT	-8.000	SPBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
RBNV17	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
RBNR17	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



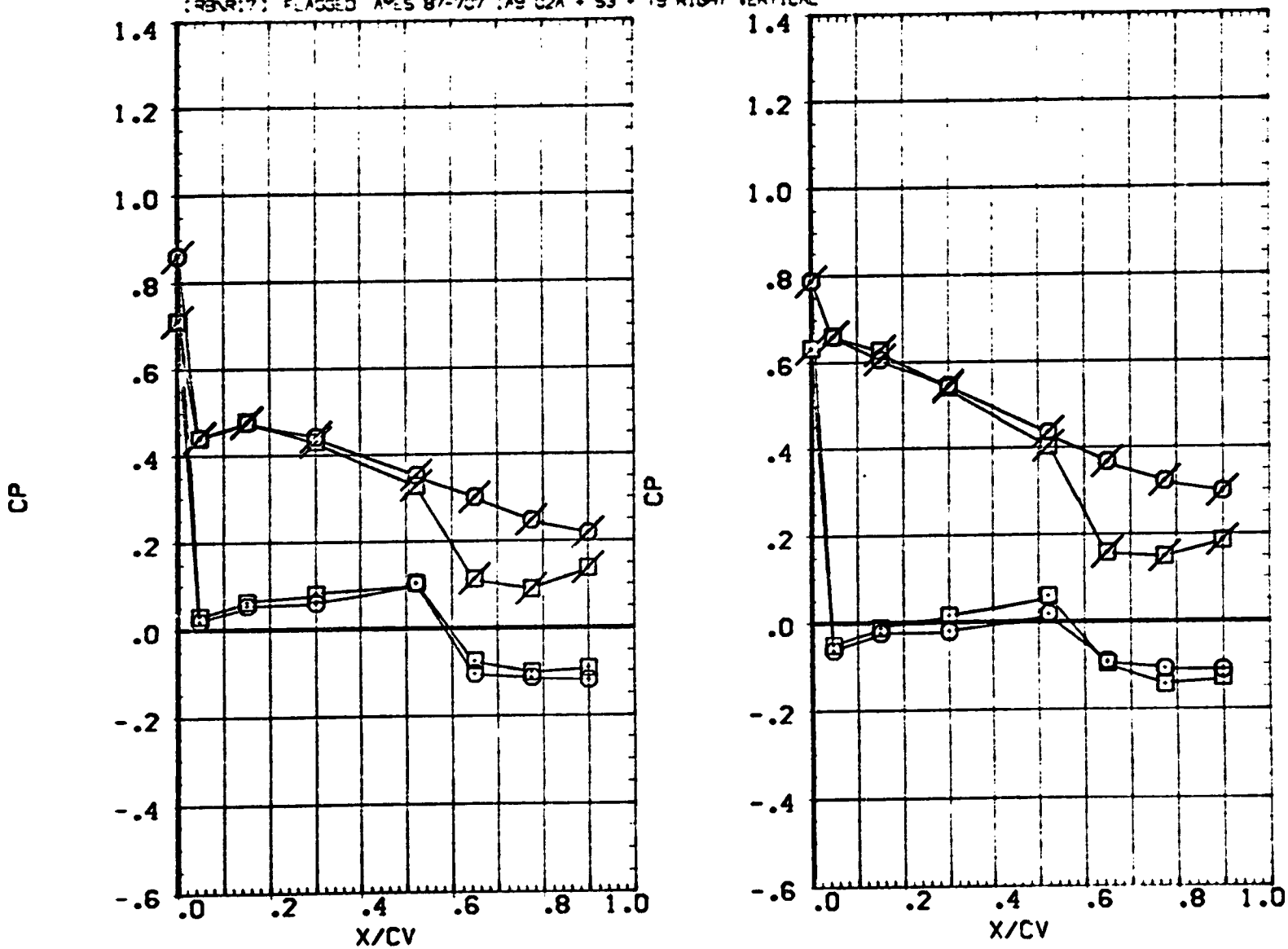
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA	MACH
	.840	4.330	2.499
	.975	8.600	

PARAMETRIC VALUES

ALPHA	-8.000	SPOIL	.500
RUDDER	-10.000	ELEVON	.000
ROLL	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
RUN:7	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
RUN:7	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



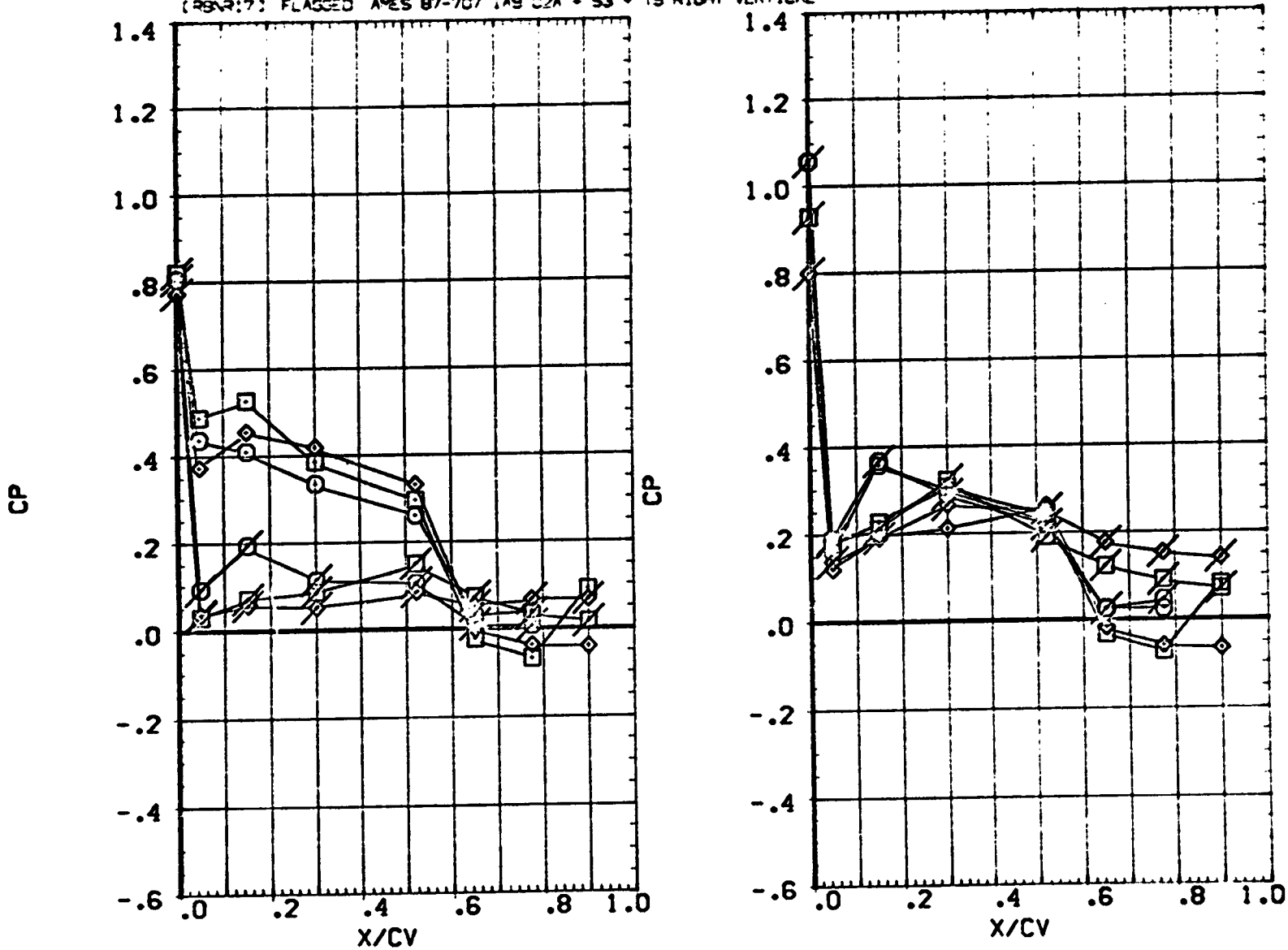
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.240	2.999
□	.316	.060	
◇	.600		

PARAMETRIC VALUES

ALPHAT	-8.000	SPOINC	.500
RUDDER	-10.000	ELEVON	.000
ROLL	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNV:7)	OPEN	AMES 87-707 (A9 C2A + S3 + T9 LEFT VERTICAL
(RBNR:7)	FLAGGED	AMES 87-707 (A9 C2A + S3 + T9 RIGHT VERTICAL



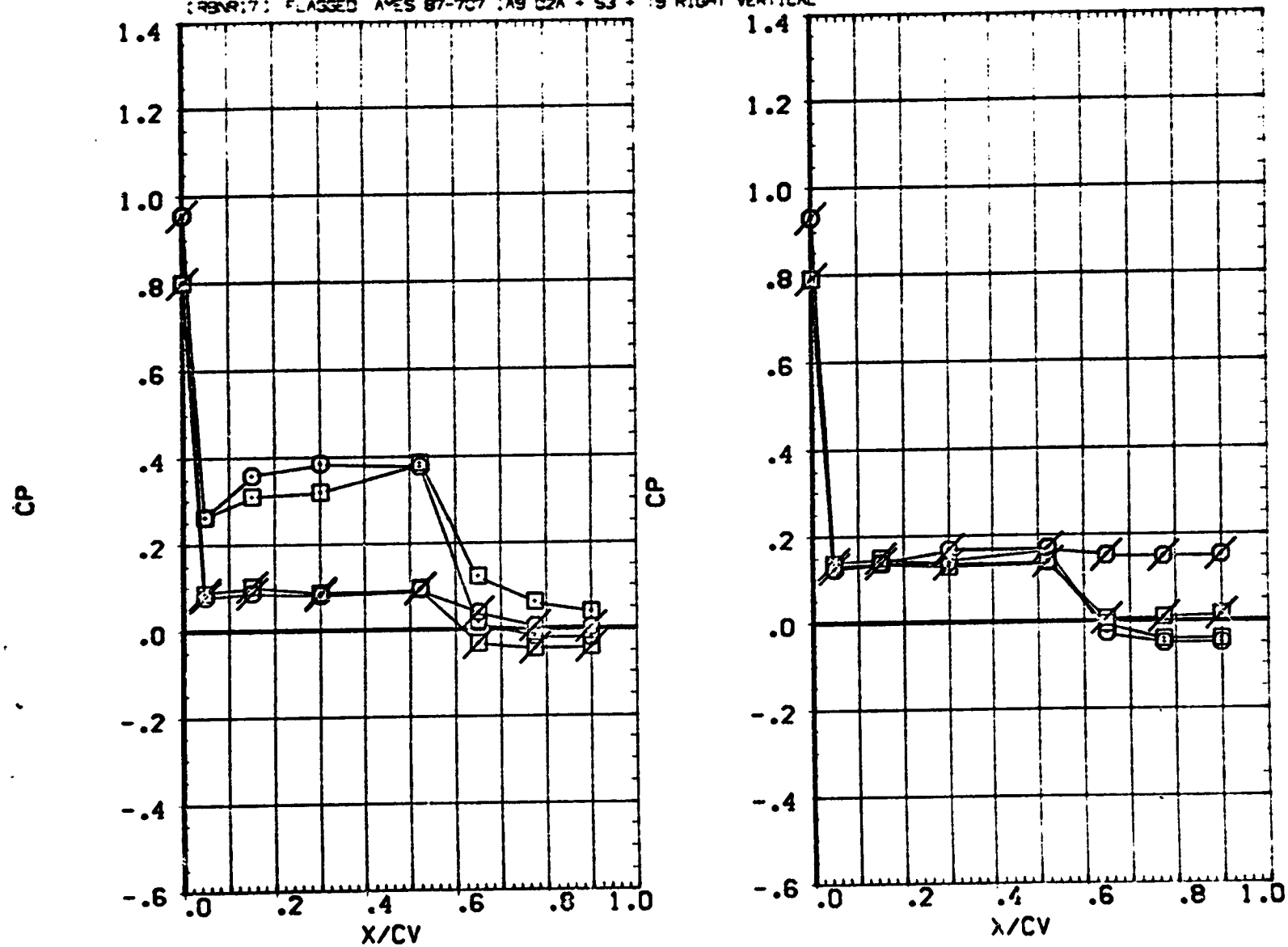
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETAT	MACH
	.840	-4.240	2.999
	.975	.060	

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDLAP	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNV17)	OPEN	AMES 87-707 (A9 C2A + S3 + T9 LEFT VERTICAL
(RBNR17)	FLAGGED	AMES 87-707 (A9 C2A + S3 + T9 RIGHT VERTICAL



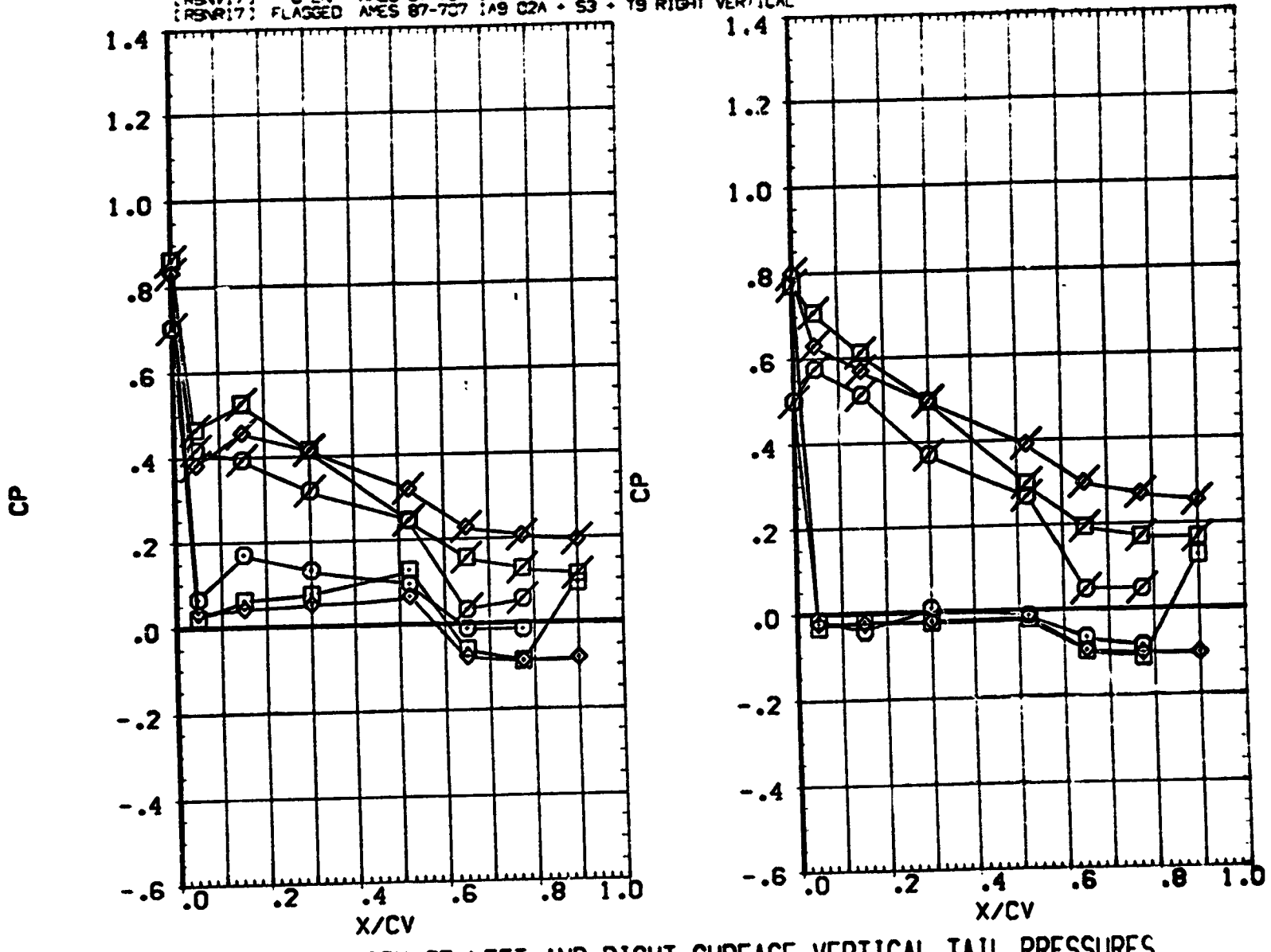
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
	.158	4.410	2.999
	.316	8.760	
◇	.600		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
RBNV17	OPEN	AMES 87-707 A9 C2A + S3 + T9 LEFT VERTICAL
RBNR17	FLAGGED	AMES 87-707 A9 C2A + S3 + T9 RIGHT VERTICAL



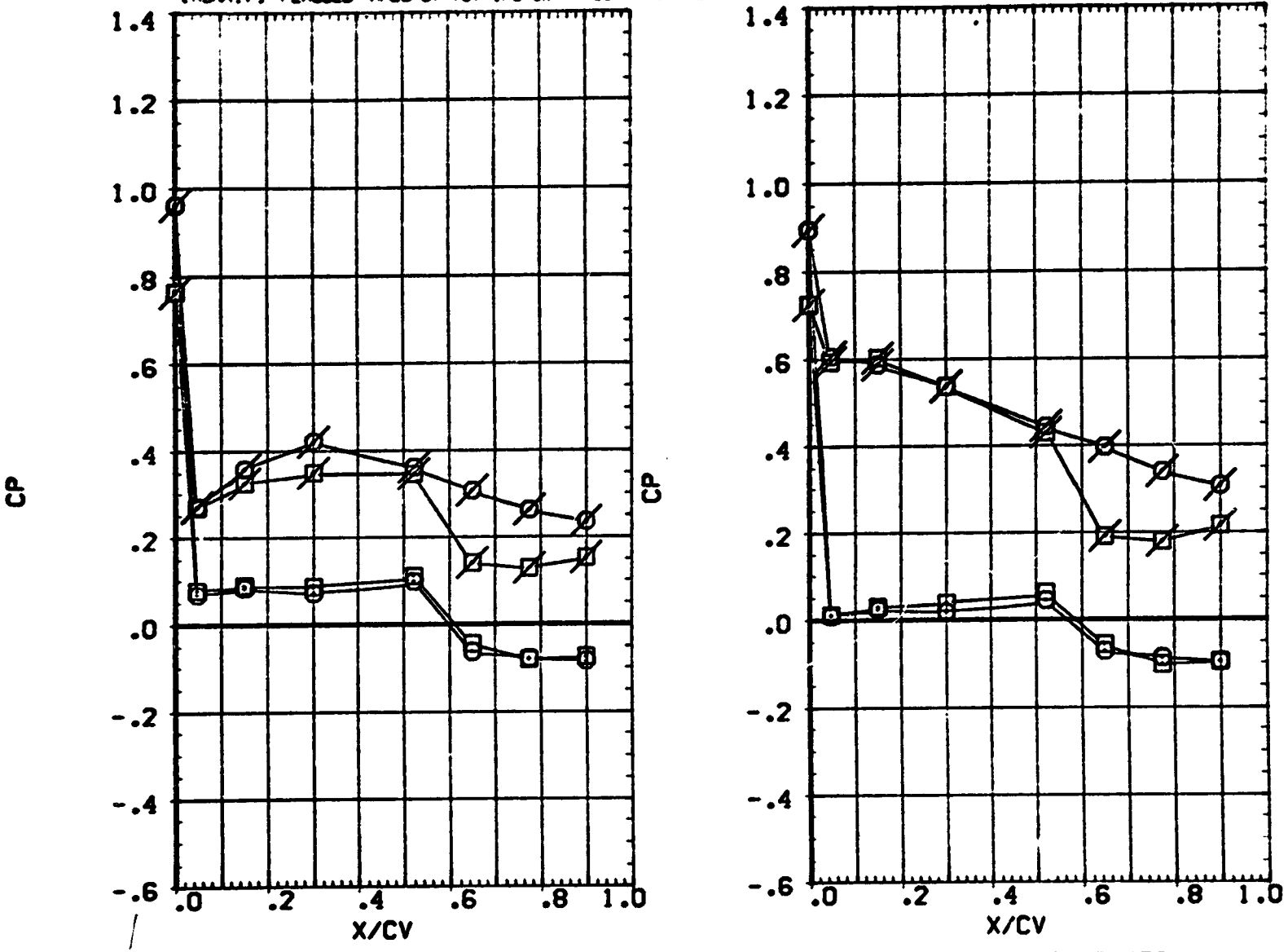
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
( )	.840	4.410	2.999
	.925	8.760	

PARAMETRIC VALUES

ALPHAT	-8.000	ORGINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNV:7)	OPEN	AMES 87-707 IA9 C2A + S3 + T9 LEFT VERTICAL
(RBVR:7)	FLAGGED	AMES 87-707 IA9 C2A + S3 + T9 RIGHT VERTICAL



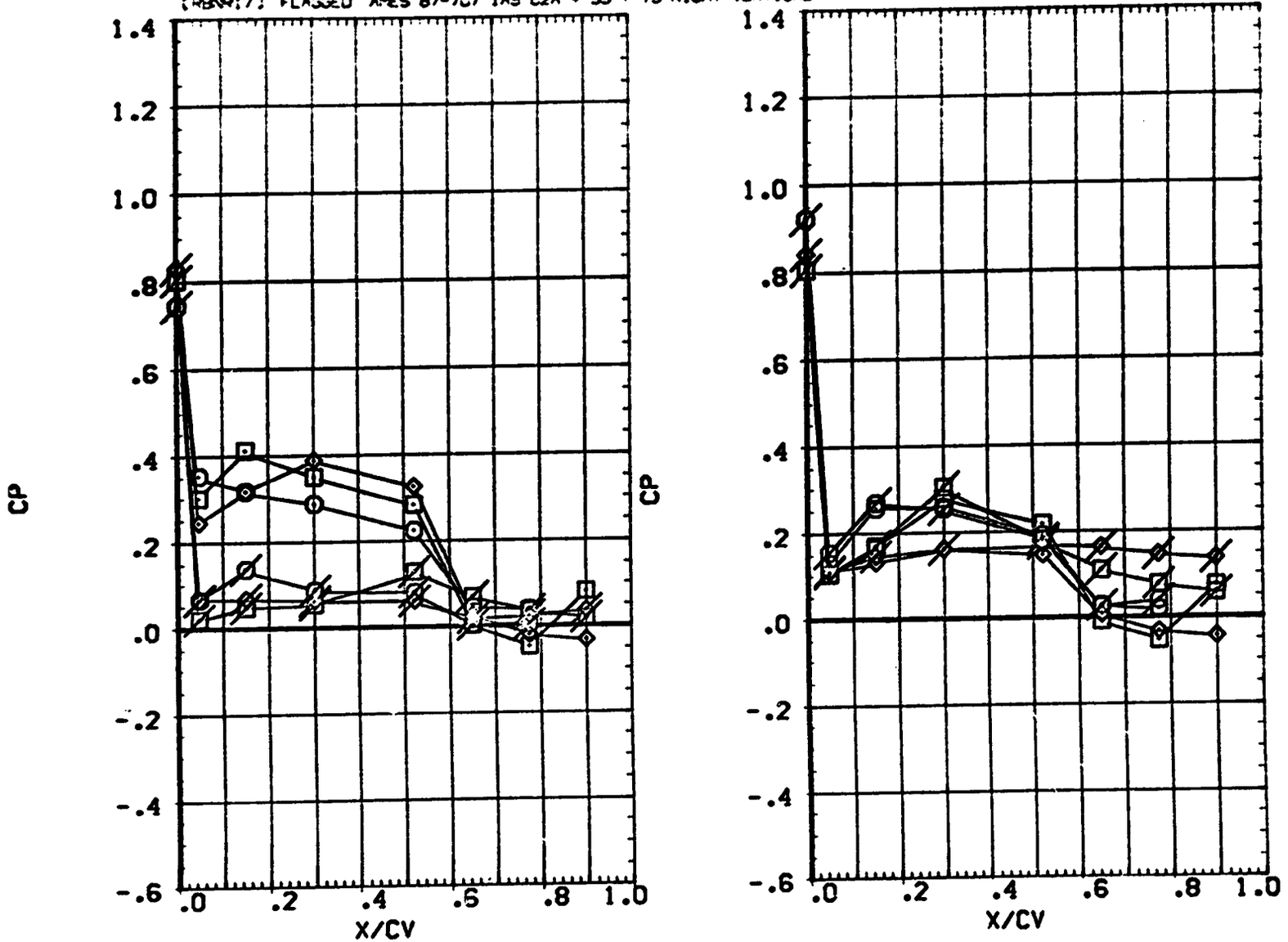
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.320	3.502
□	.316	.060	
◇	.600		

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBNV17) OPEN AMES 87-707 1A9 C2A + S3 + T9 LEFT VERTICAL
(RBNR17) FLAGGED AMES 87-707 1A9 C2A + S3 + T9 RIGHT VERTICAL



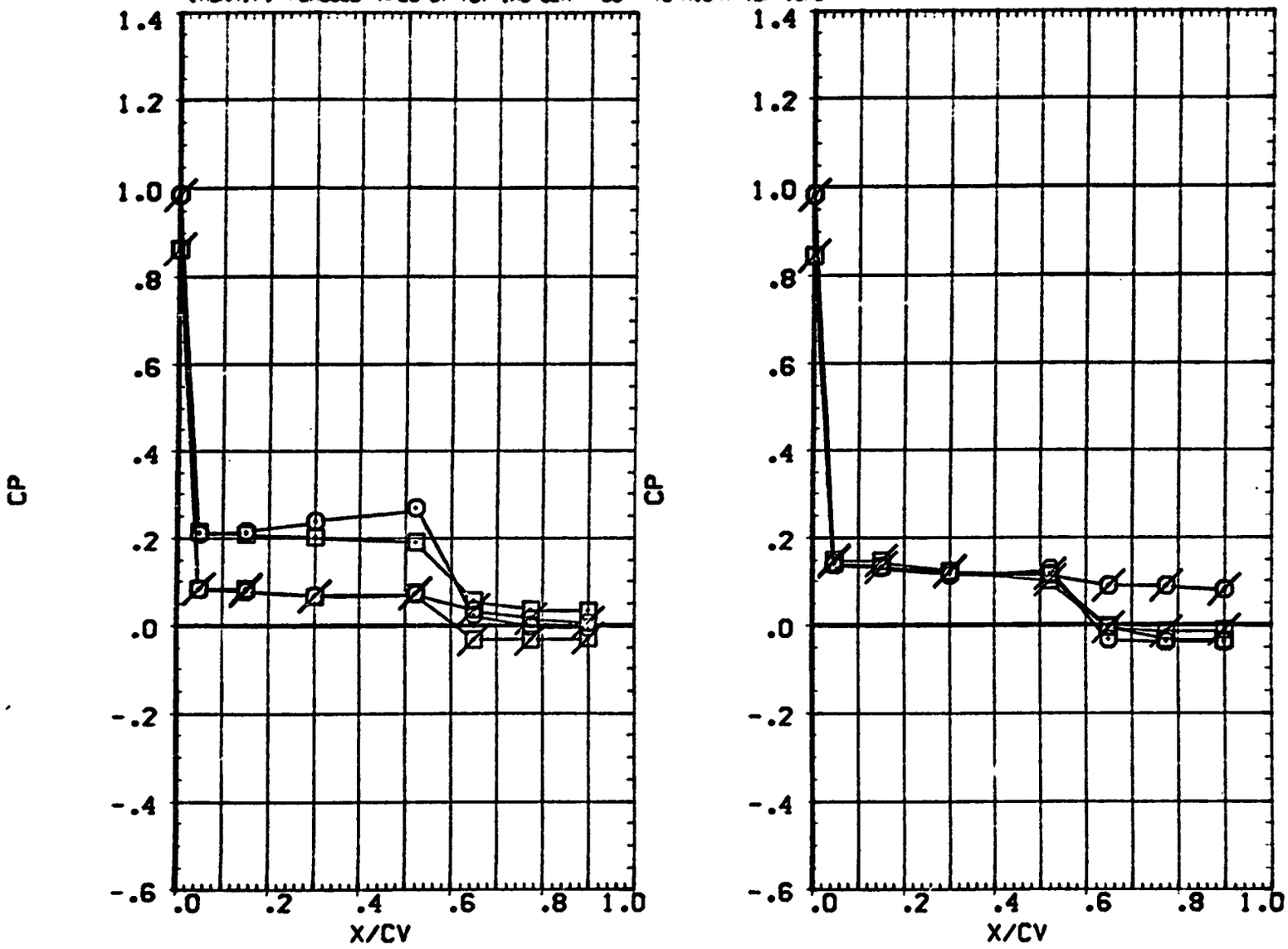
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-4.320	3.502
□	.975	.000	

PARAMETRIC VALUES

ALPHAT	-8.000	ORBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBVV17)	OPEN	AMES 87-707 (A9 D2A + S3 + T9 LEFT VERTICAL
(RBVR17)	FLAGGED	AMES 87-707 (A9 D2A + S3 + T9 RIGHT VERTICAL



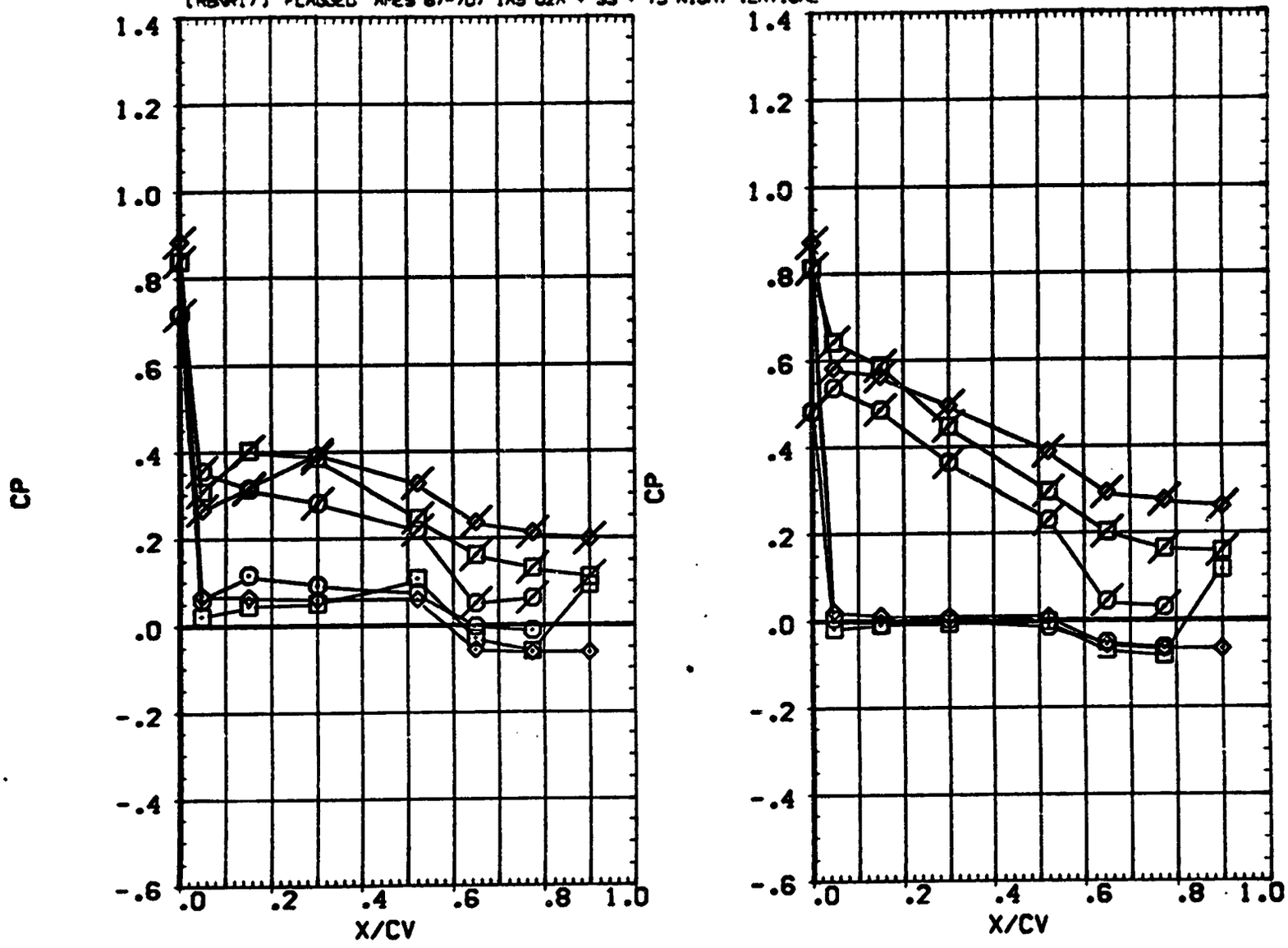
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	4.490	3.502
□	.316	8.910	
◇	.600		

PARAMETRIC VALUES

ALPHAT	-8.000	DRBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNV17)	OPEN	AMES 87-707 IA9 D2A + S3 + T9 LEFT VERTICAL
(RBNR17)	FLAGGED	AMES 87-707 IA9 D2A + S3 + T9 RIGHT VERTICAL



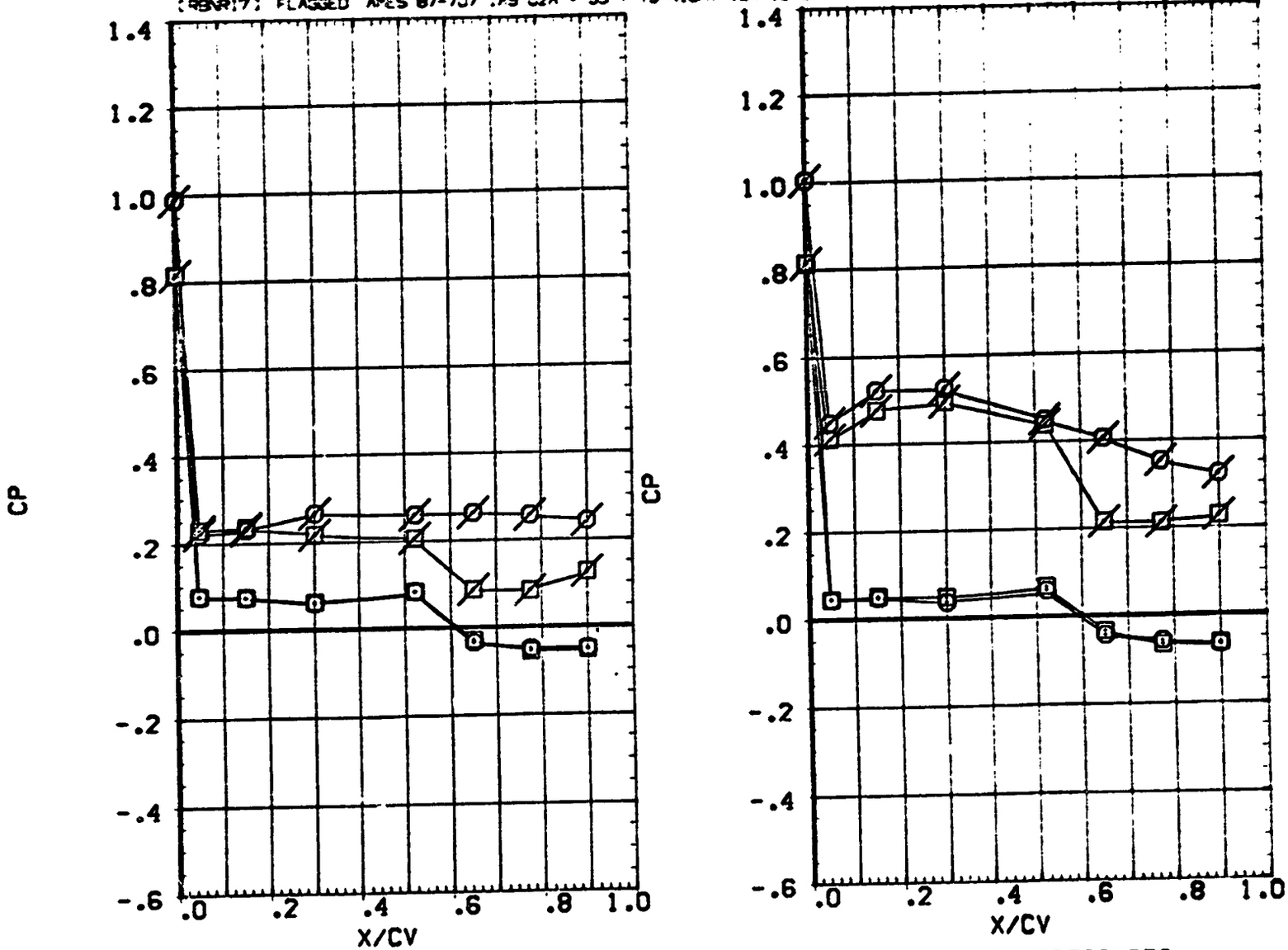
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
	.810	4.490	3.502
	.925	8.910	

PARAMETRIC VALUES

ALPHAT	-8.000	SPOILER	.000
RUDDER	-10.000	ELEVON	.000
ROLLER	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBV17)	OPEN	AMES 87-707 (A9 02A + S3 + T9 LEFT VERTICAL
(RBVR17)	FLAGGED	AMES 87-707 (A9 02A + S3 + T9 RIGHT VERTICAL



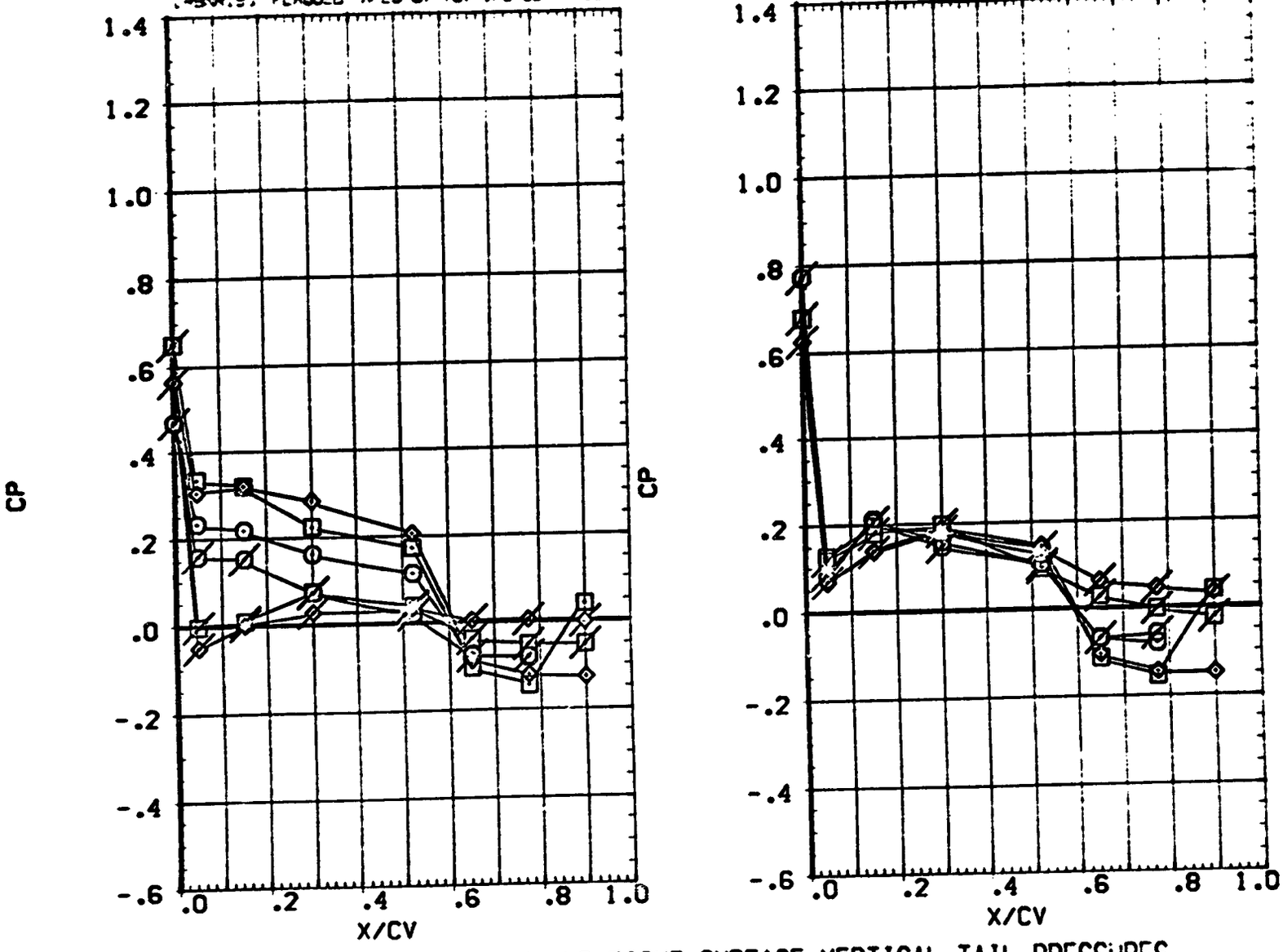
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B/	BETAT	MACH
○	.158	-4.180	2.499
□	.316	.060	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	DBDINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
PSNV19	OPEN	AMES 87-707 A9 C2A + S3 + T9 LEFT VERTICAL
PSNR19	FLAGGED	AMES 87-707 A9 C2A + S3 + T9 RIGHT VERTICAL



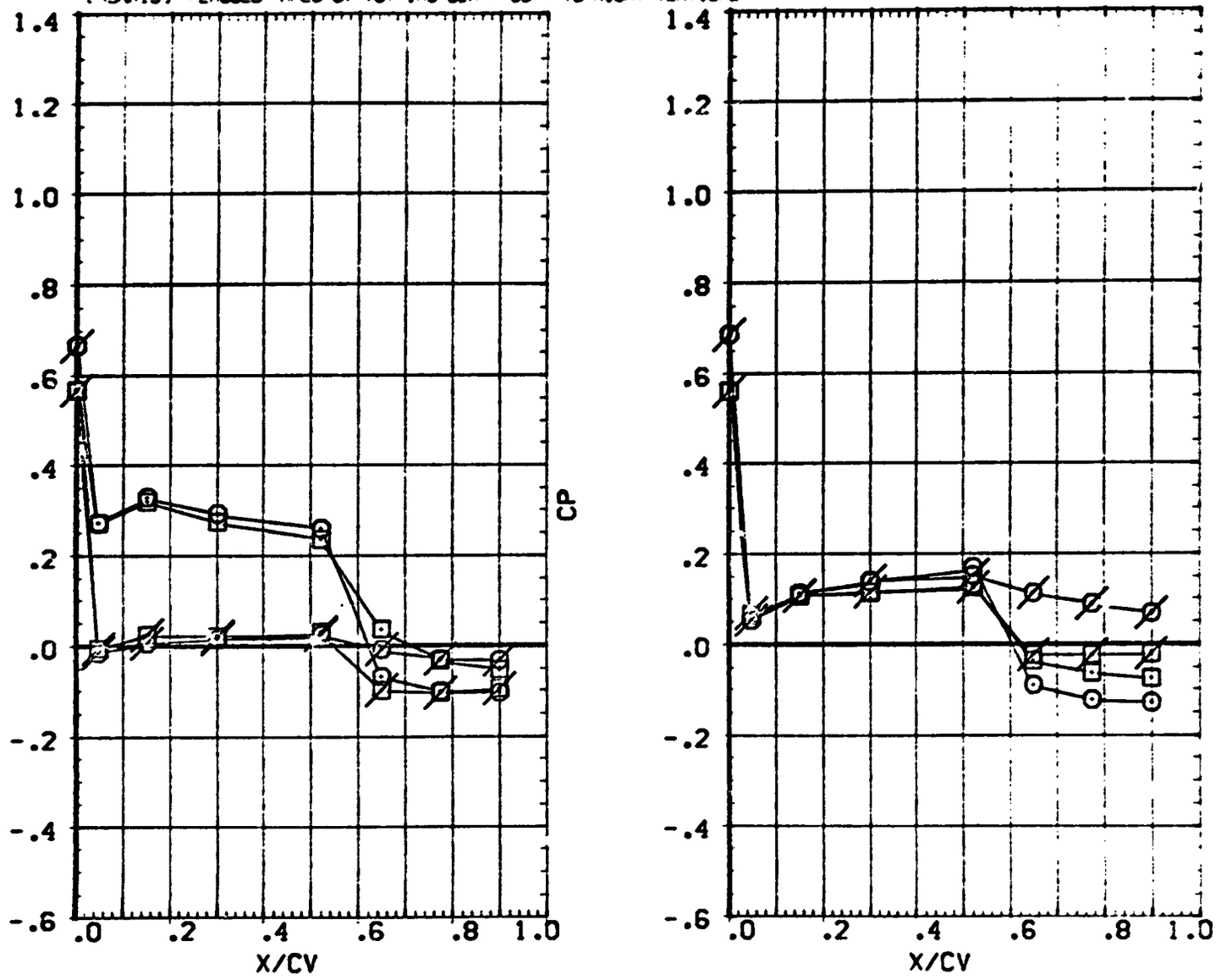
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-4.180	2.499
□	.925	.060	

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNV19)	OPEN	AMES 87-707 (A9 O2A + S3 + T9 LEFT VERTICAL
(RBNR19)	FLAGGED	AMES 87-707 (A9 O2A + S3 + T9 RIGHT VERTICAL



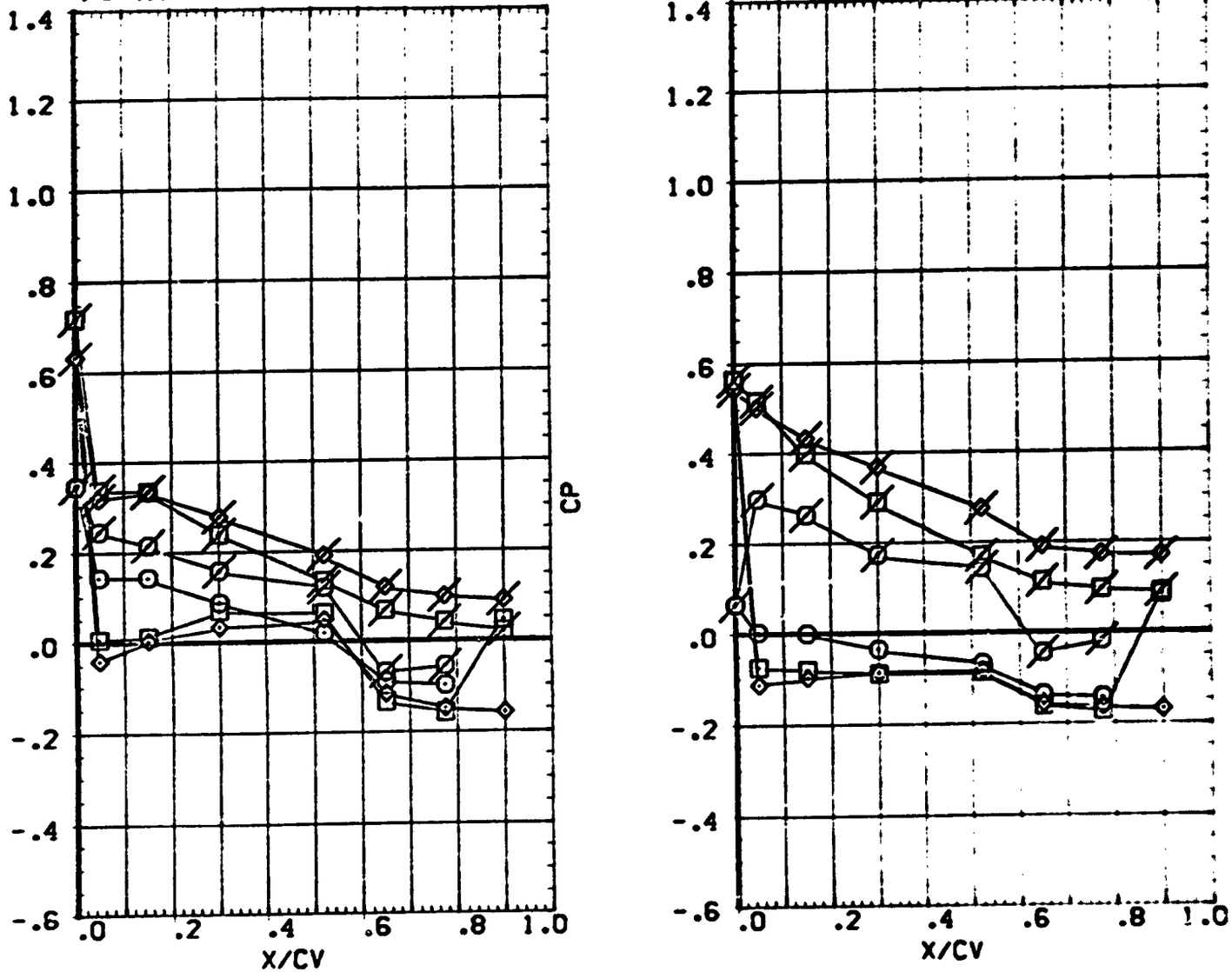
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/ZV	BETAT	MACH
○	.158	4.300	2.499
□	.316	8.550	
◇	.600		

PARAMETRIC VALUES

ALPHA	.000	SPRING	.500
RUDDER	-10.000	ELEVON	.000
ROLLER	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNV:9)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(RBNR:9)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



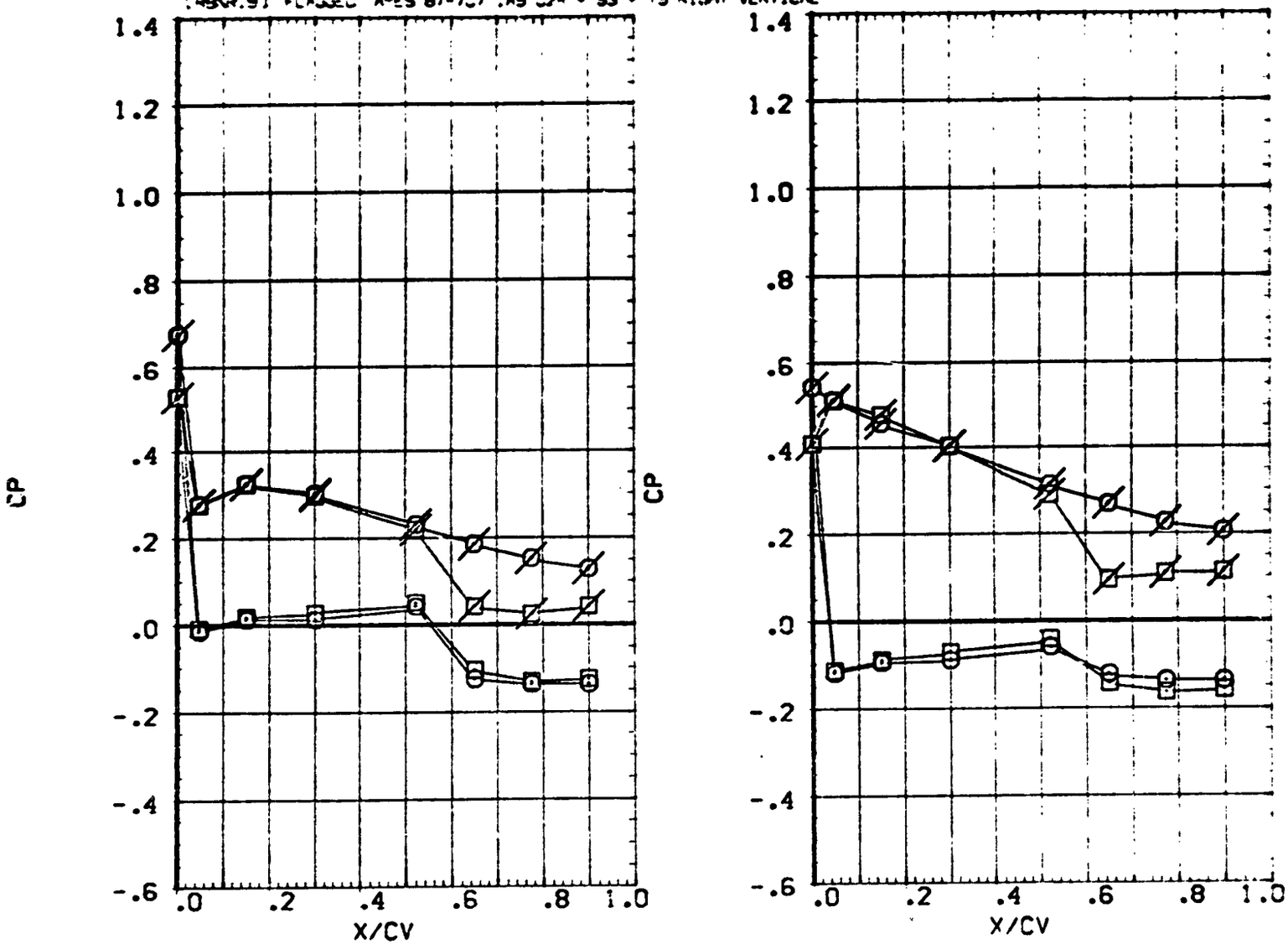
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B/	BETA	MACH
	.840	4.300	2.499
	.925	8.550	

PARAMETRIC VALUES

ALPHA	.000	SPB/V	.500
RUDDER	-10.000	ELEVON	.000
RUDDER	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RSNV:9)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(RSNR:9)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



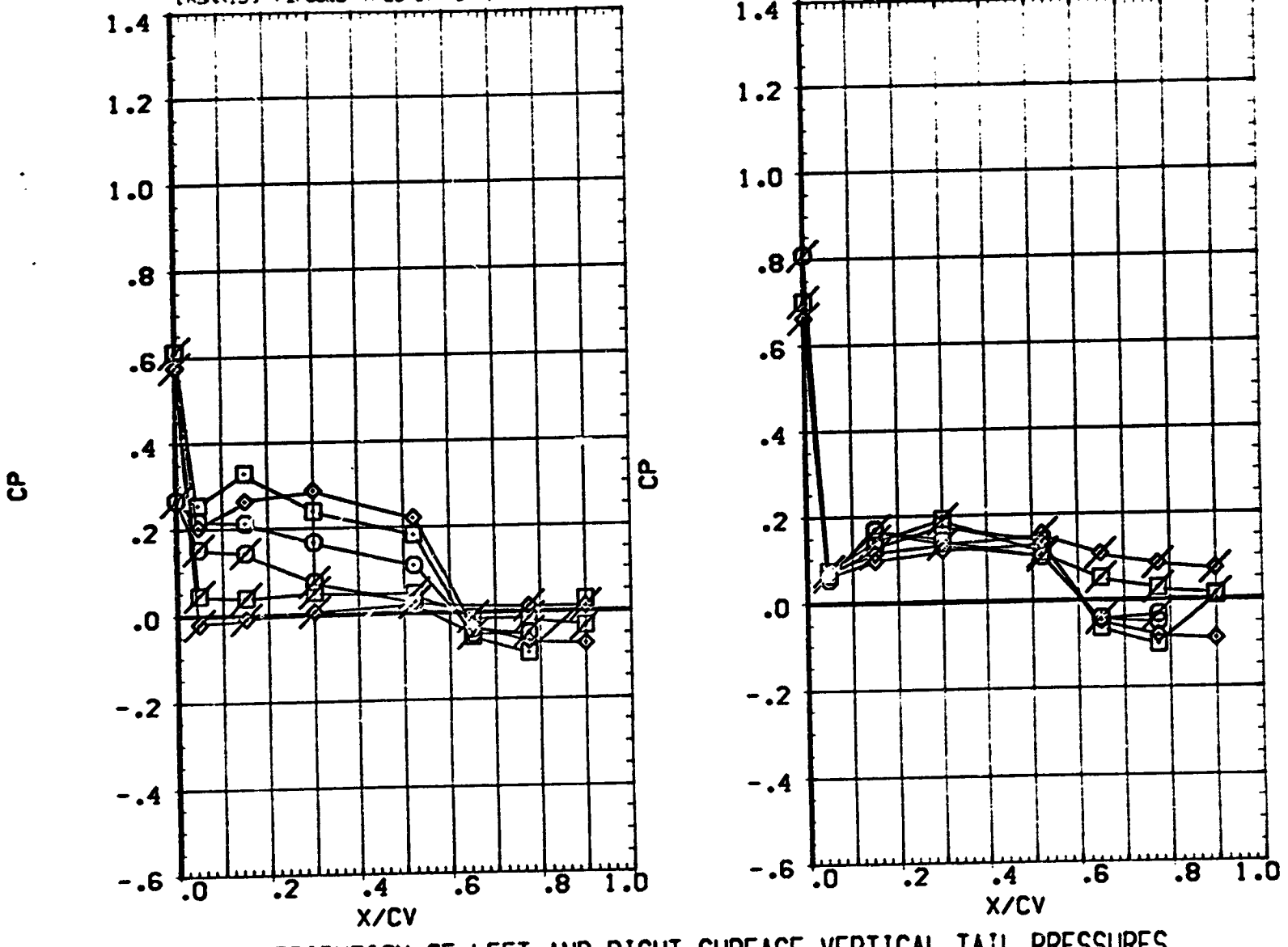
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	-4.760	2.999
□	.316	.060	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	SBINC	.500
RUDDER	-15.000	ELEVON	.000
RUDLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNV:9)	OPEN	AMES 87-707 IA9 02A + S3 + T9 LEFT VERTICAL
(RBNR:9)	FLAGGED	AMES 87-707 IA9 02A + S3 + T9 RIGHT VERTICAL

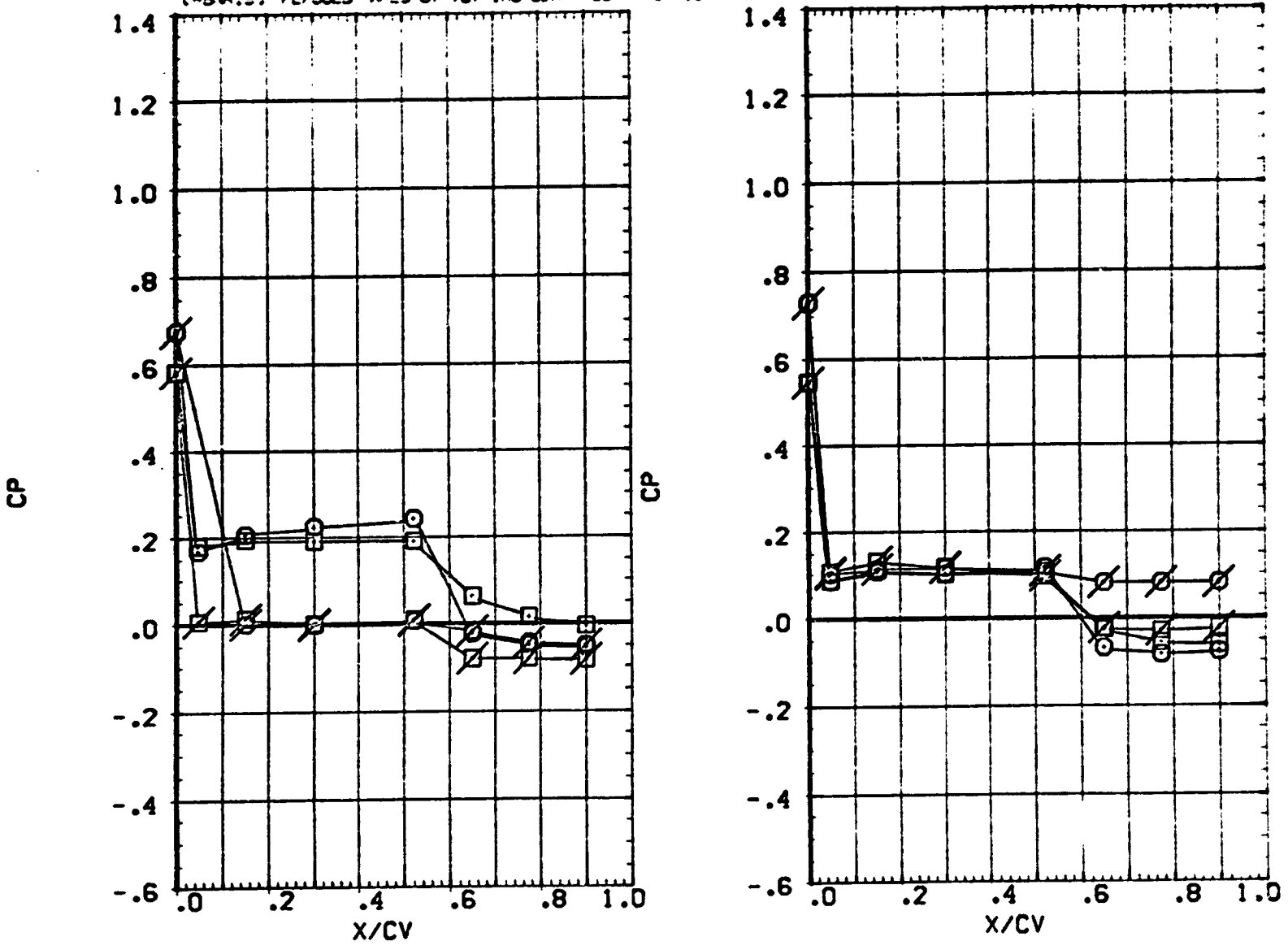


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

	.840	-4.260	2.999
	.925	.060	

ALPHA	.000	COMBINC	.000
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNV19)	OPEN	AMES 87-707 (A9 C2A + S3 + T9 LEFT VERTICAL
(RBNR19)	FLAGGED	AMES 87-707 (A9 C2A + S3 + T9 RIGHT VERTICAL



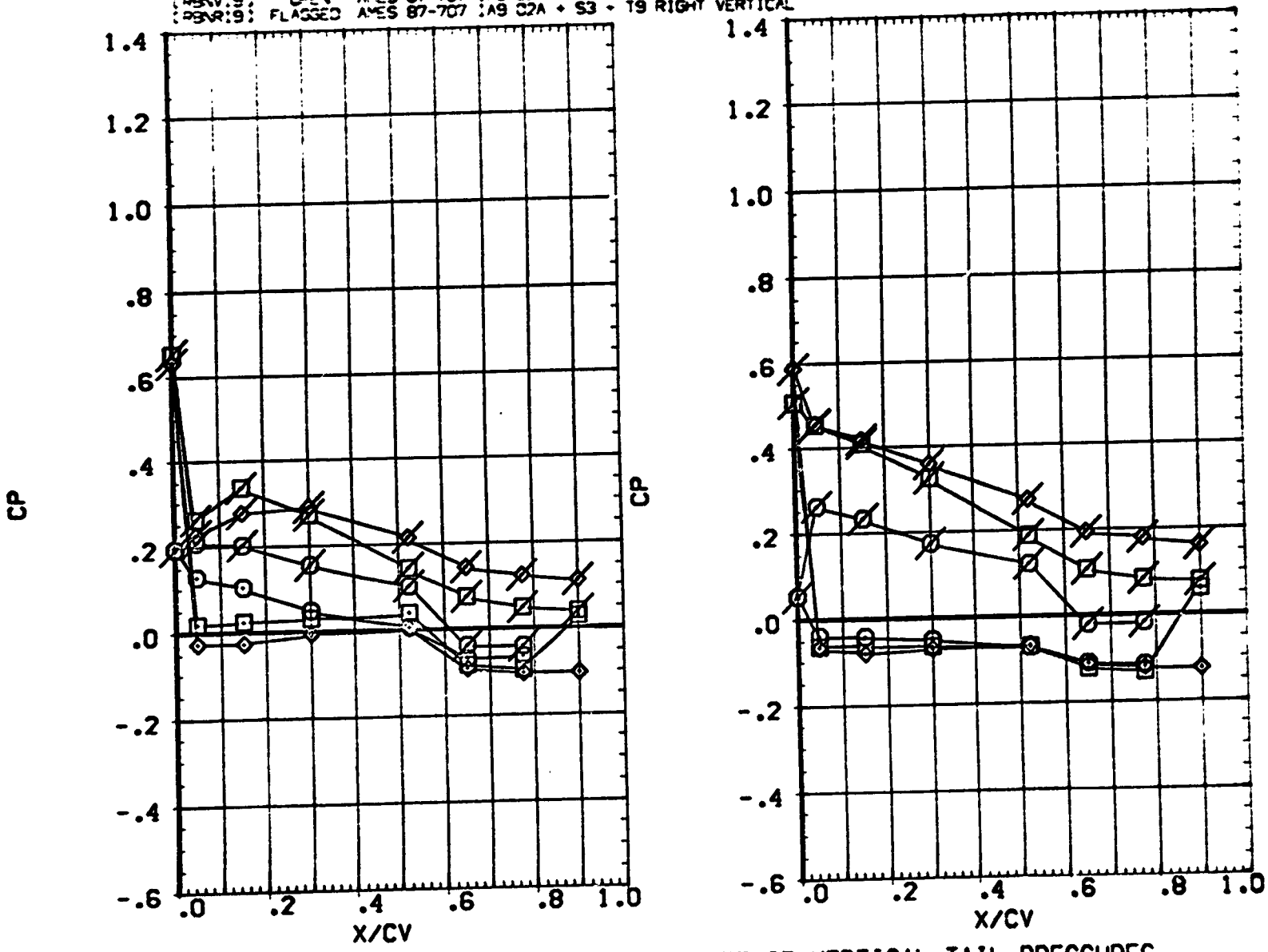
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	4.380	2.999
□	.316	8.710	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	DRBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PSNV:9)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(PSNR:9)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



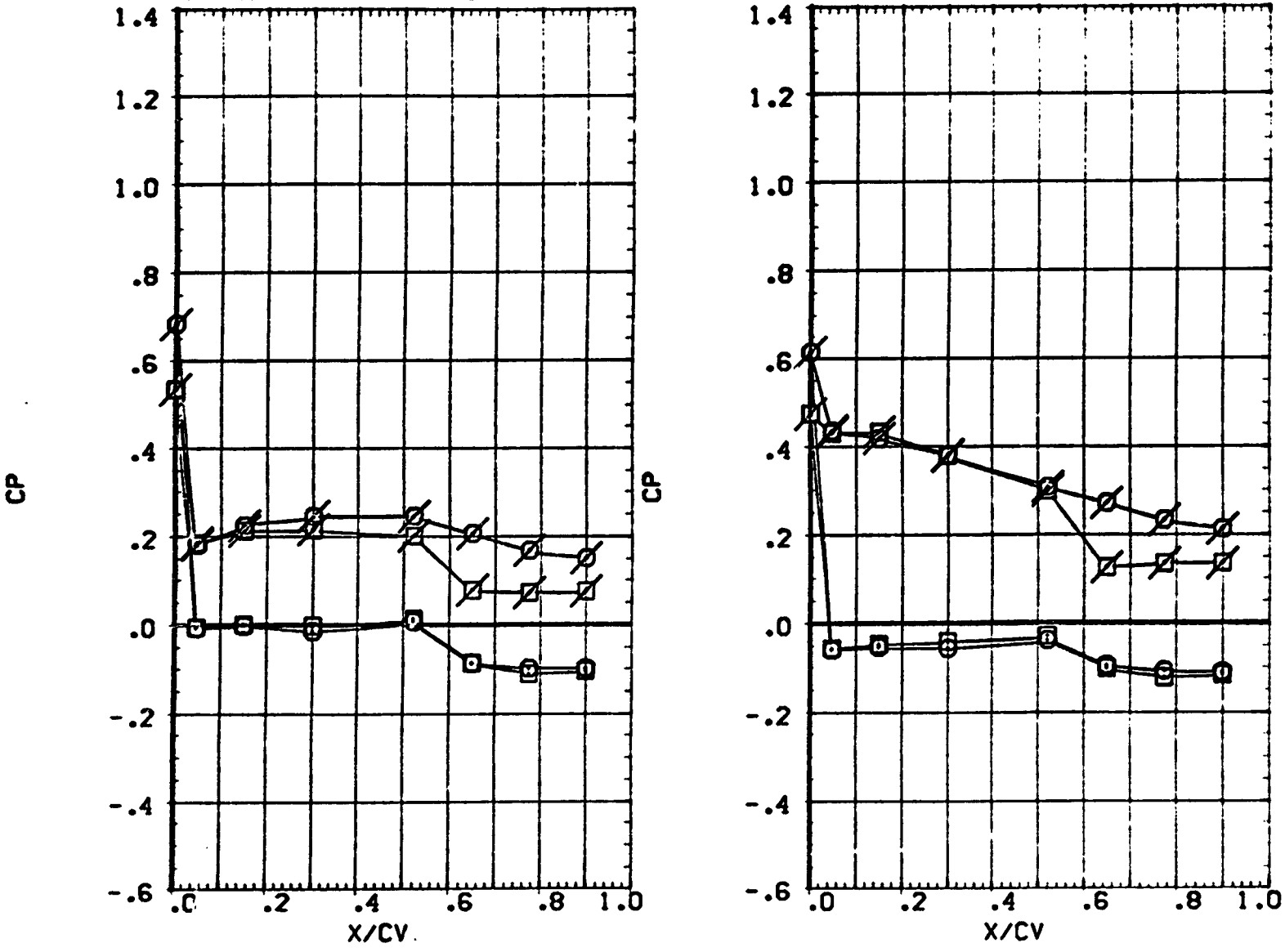
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	4.380	2.999
□	.975	8.710	

PARAMETRIC VALUES

ALPHAT	.000	DRGINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNV19)	OPEN	AMES 87-707 IA9 C2A + S3 + T9 LEFT VERTICAL
(RBNR19)	FLAGGED	AMES 87-707 IA9 C2A + S3 + T9 RIGHT VERTICAL



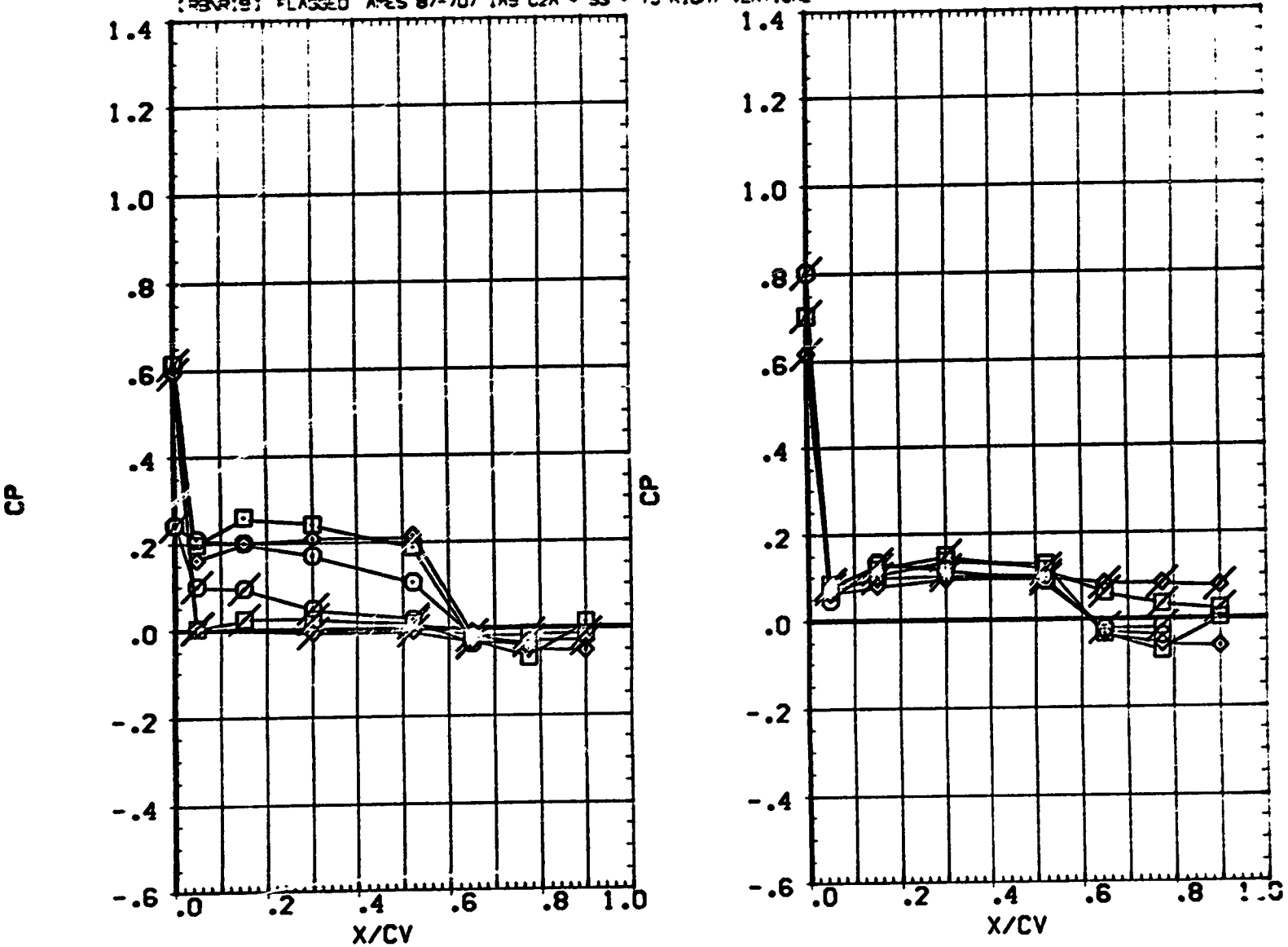
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA	MACH
○	.158	-4.340	3.502
□	.316	.060	
◇	.600		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNV:9)	OPEN	AMES 87-707 IA9 C2A + S3 + T9 LEFT VERTICAL
(RBNR:9)	FLAGGED	AMES 87-707 IA9 C2A + S3 + T9 RIGHT VERTICAL



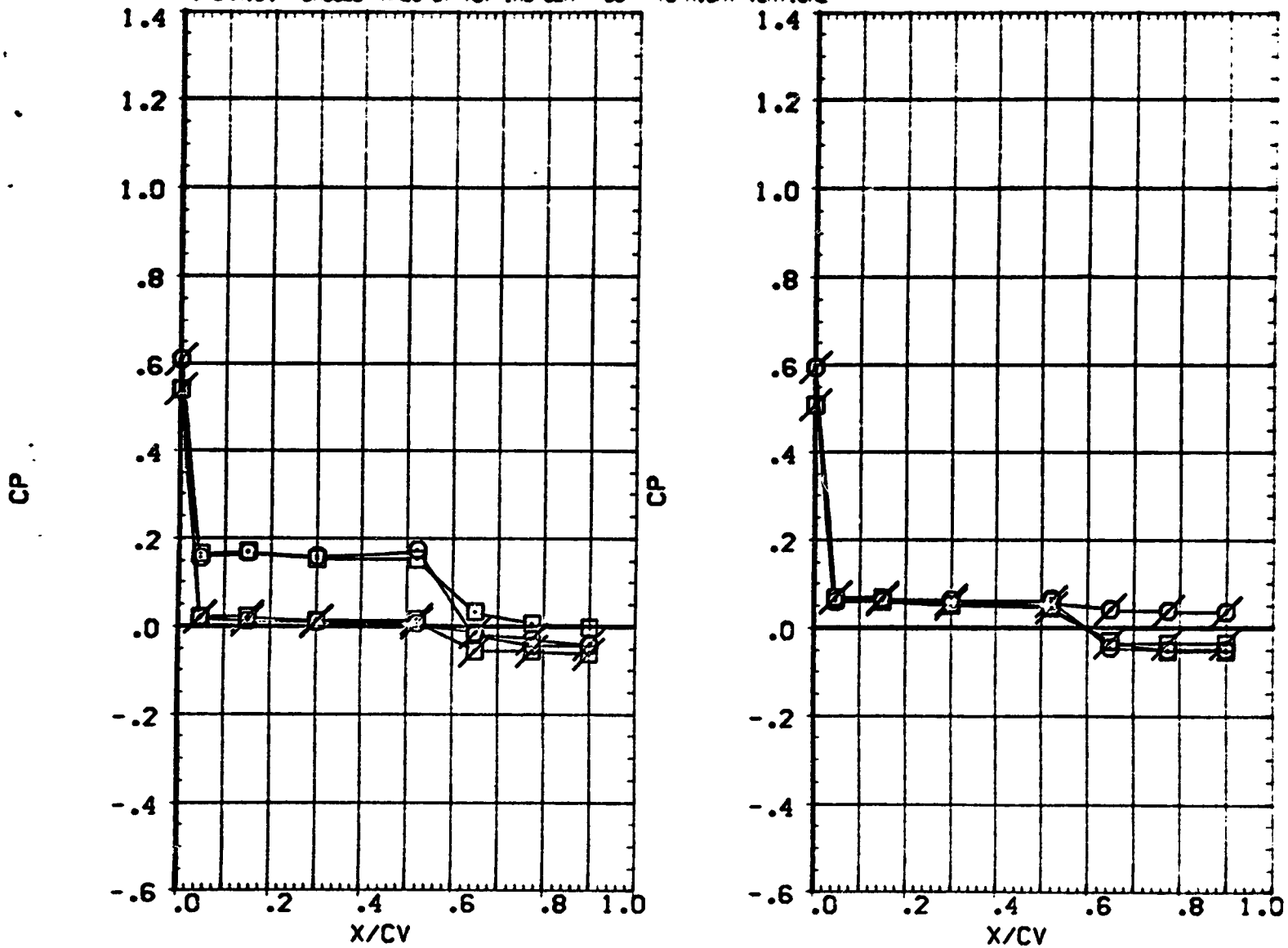
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-4.340	3.502
□	.925	.060	

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNV19)	OPEN	AMES 87-707 IA9 D2A + S3 + T9 LEFT VERTICAL
(RBNR19)	FLAGGED	AMES 87-707 IA9 D2A + S3 + T9 RIGHT VERTICAL



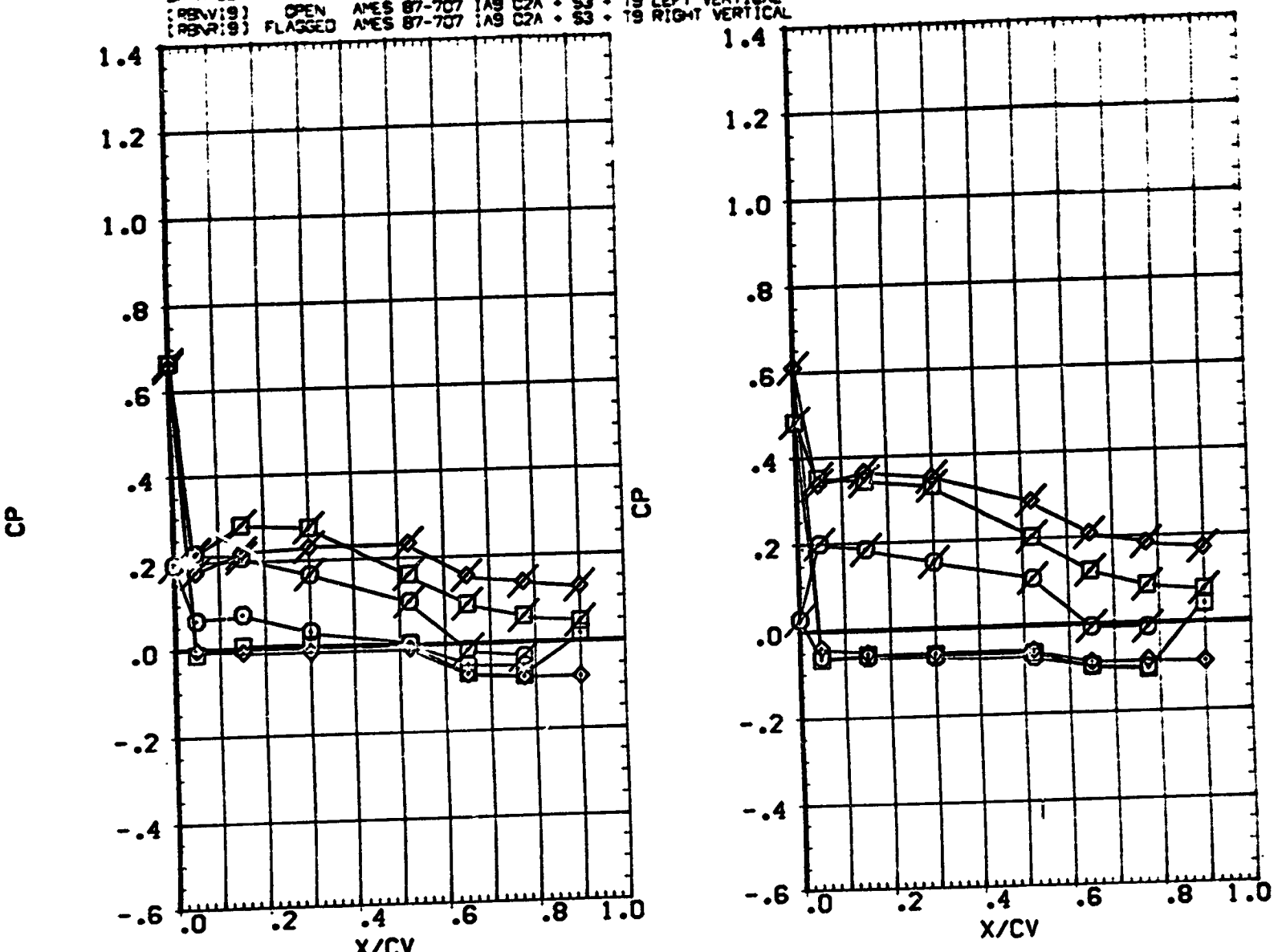
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	4.460	3.502
□	.316	8.860	
◇	.500		

PARAMETRIC VALUES

ALPHAT	.000	ORBVC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

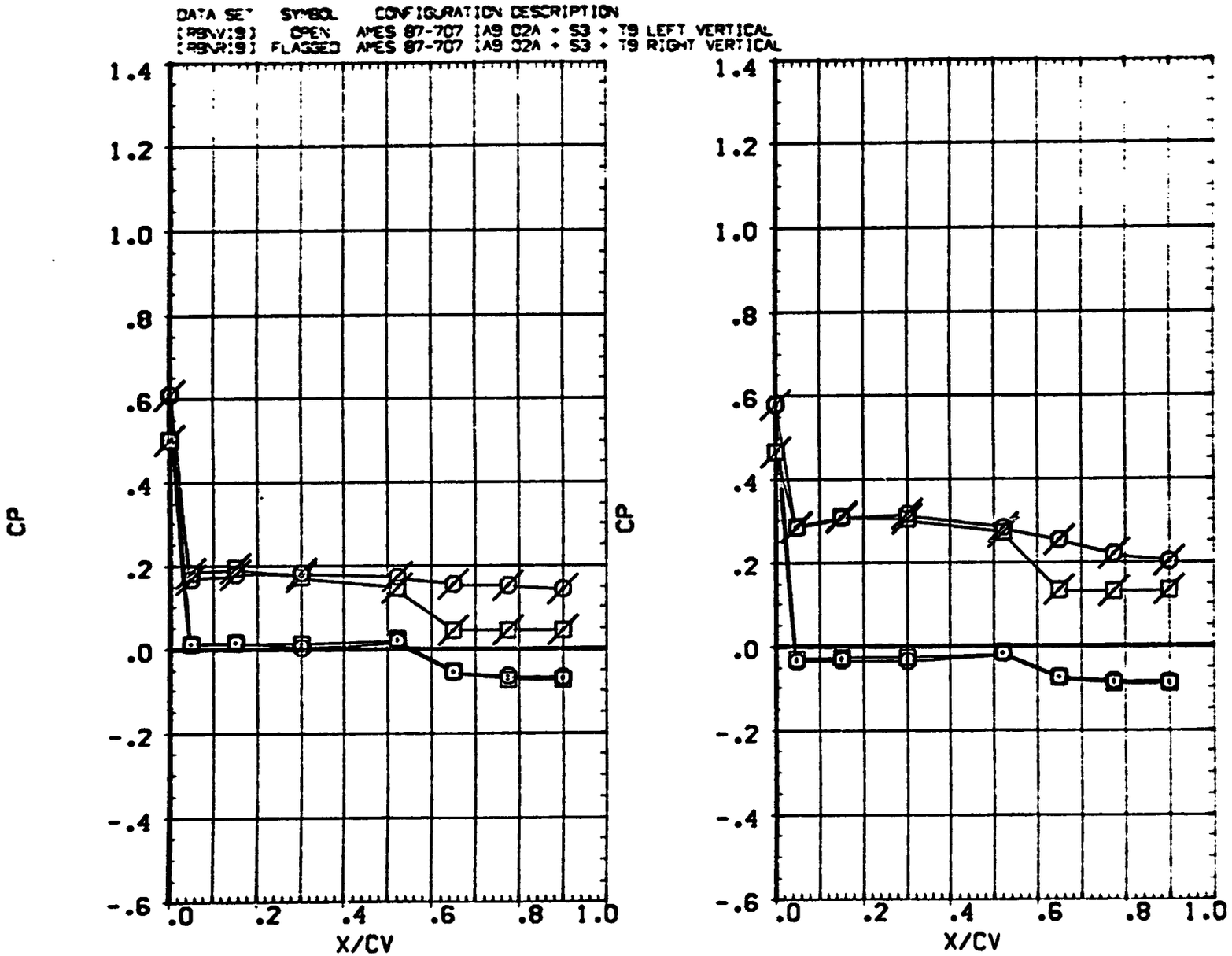
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(REN/FT)	OPEN	AMES 87-707 1A9 C2A + S3 + T9 LEFT VERTICAL
(REN/FT)	FLAGGED	AMES 87-707 1A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA	MACH
○	.840	4.450	3.502
□	.925	8.860	

ALPHAT	.000	DBY:C	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		



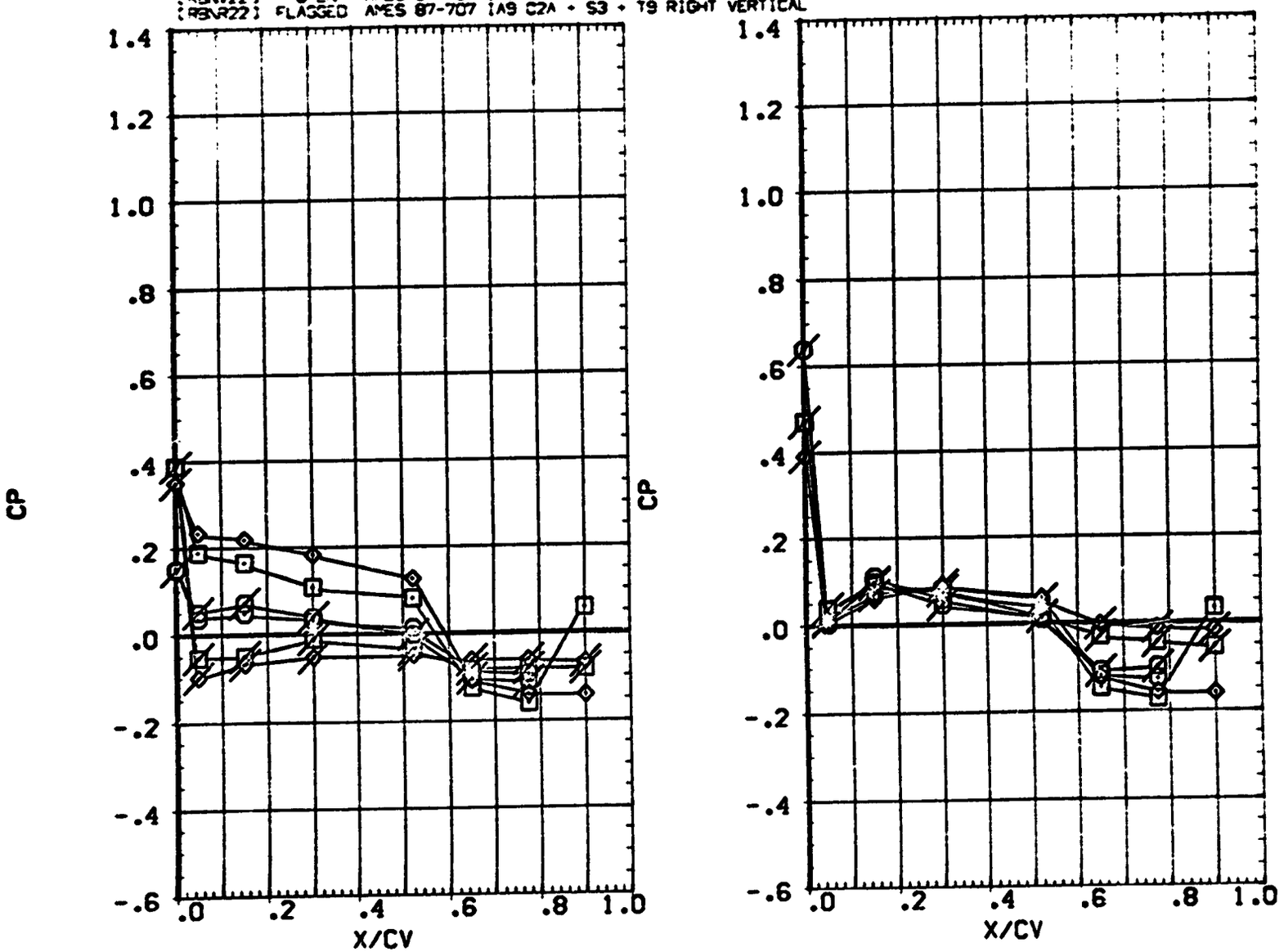
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B/	BETAT	MACH
○	.158	-4.150	2.499
□	.316	.060	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	DRINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNV221)	OPEN	AMES 87-707 (A9 C2A + S3 + T9 LEFT VERTICAL
(RBNR221)	FLAGGED	AMES 87-707 (A9 C2A + S3 + T9 RIGHT VERTICAL



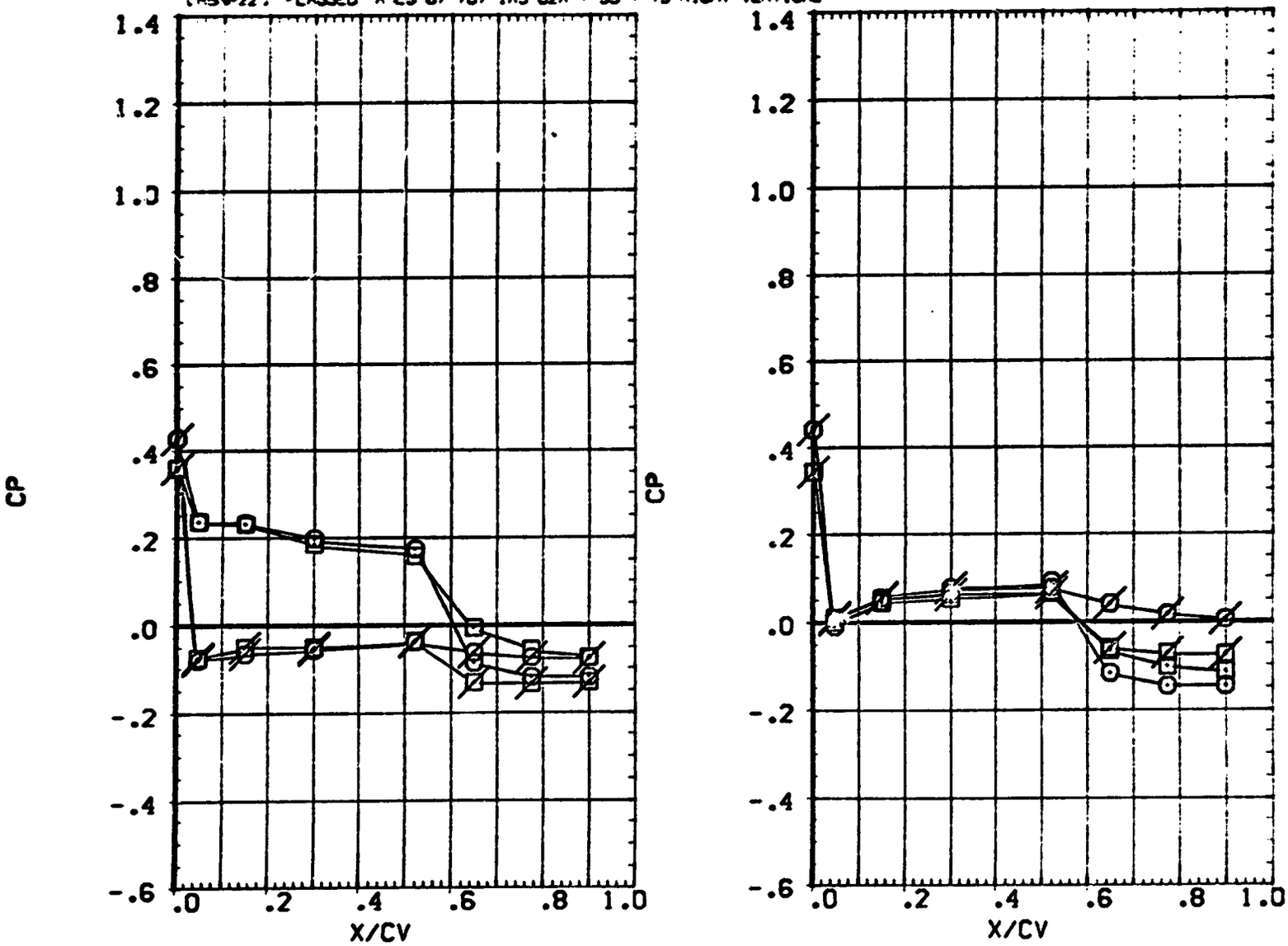
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.840	-4.150	2.499
□	.925	.060	

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[RBNV22]	OPEN	AMES 87-707 IA9 C2A + S3 + T9 LEFT VERTICAL
[RBNP22]	FLAGGED	AMES 87-707 IA9 C2A + S3 + T9 RIGHT VERTICAL



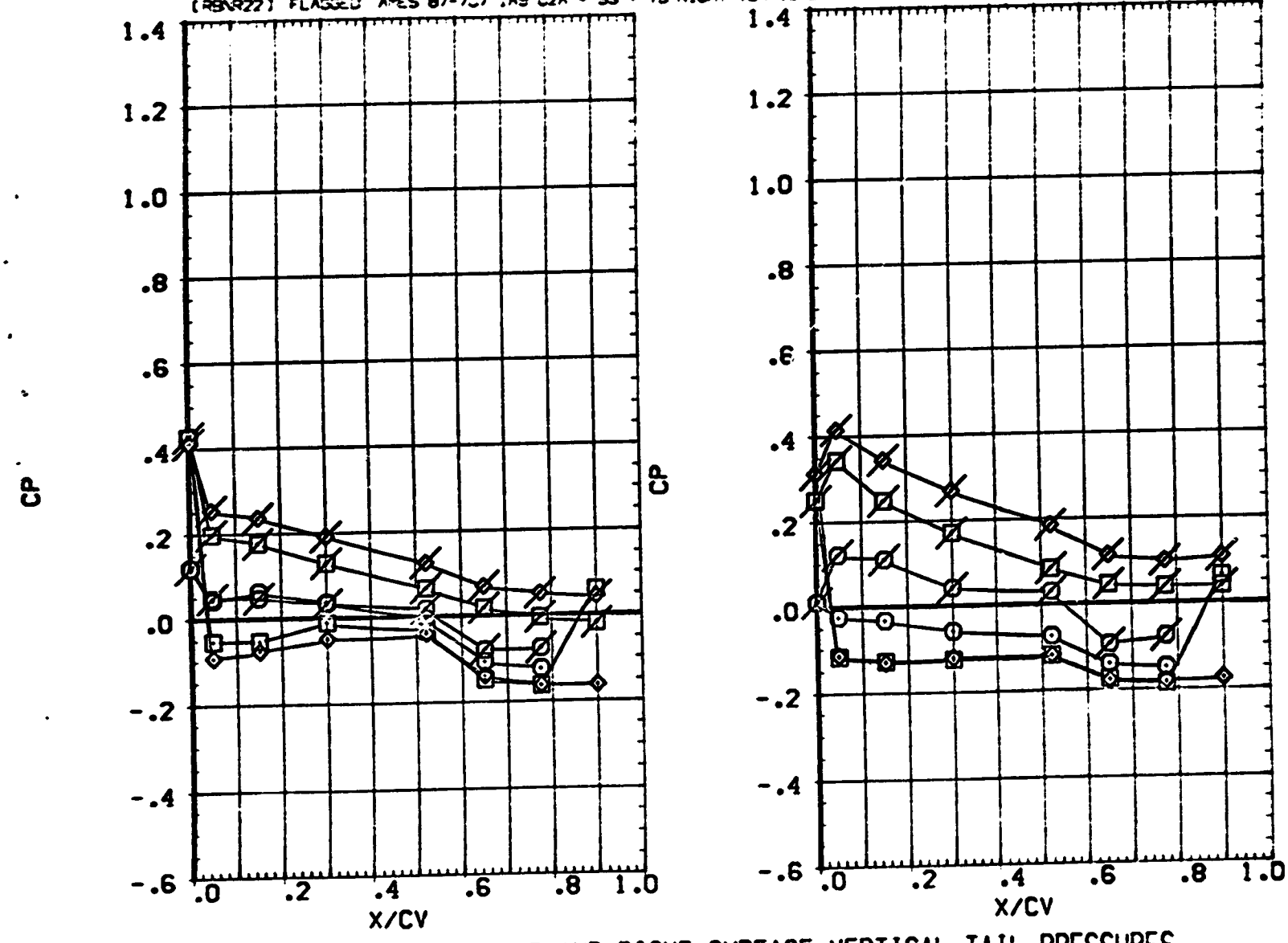
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	4.330	2.499
□	.316	8.600	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	DBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNV22)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(RBNR22)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



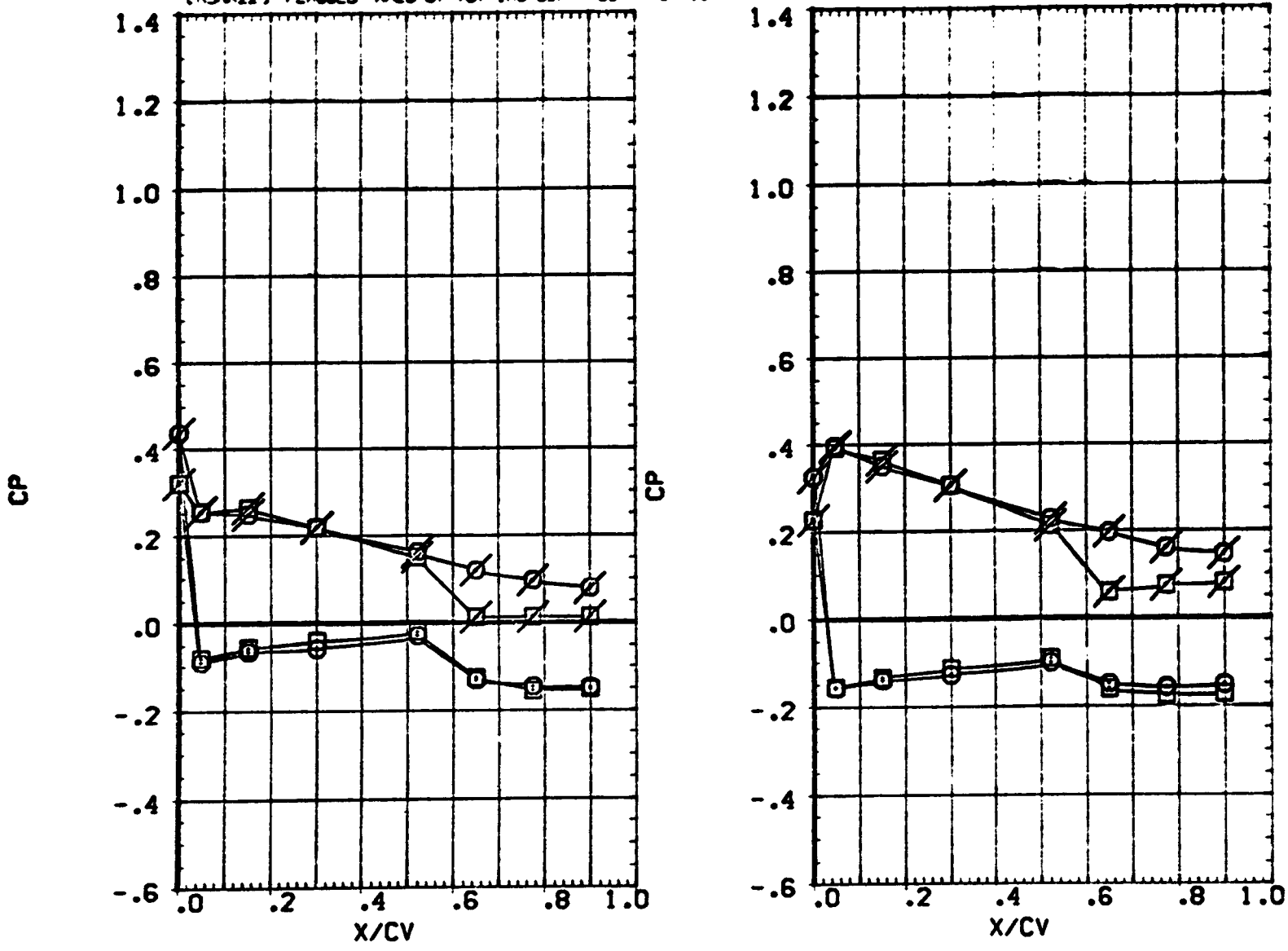
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETAT	MACH
○	.840	4.330	2.499
□	.925	8.600	

PARAMETRIC VALUES

ALPHAT	8.000	SPBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDF_R	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNV22)	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(RBNR22)	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



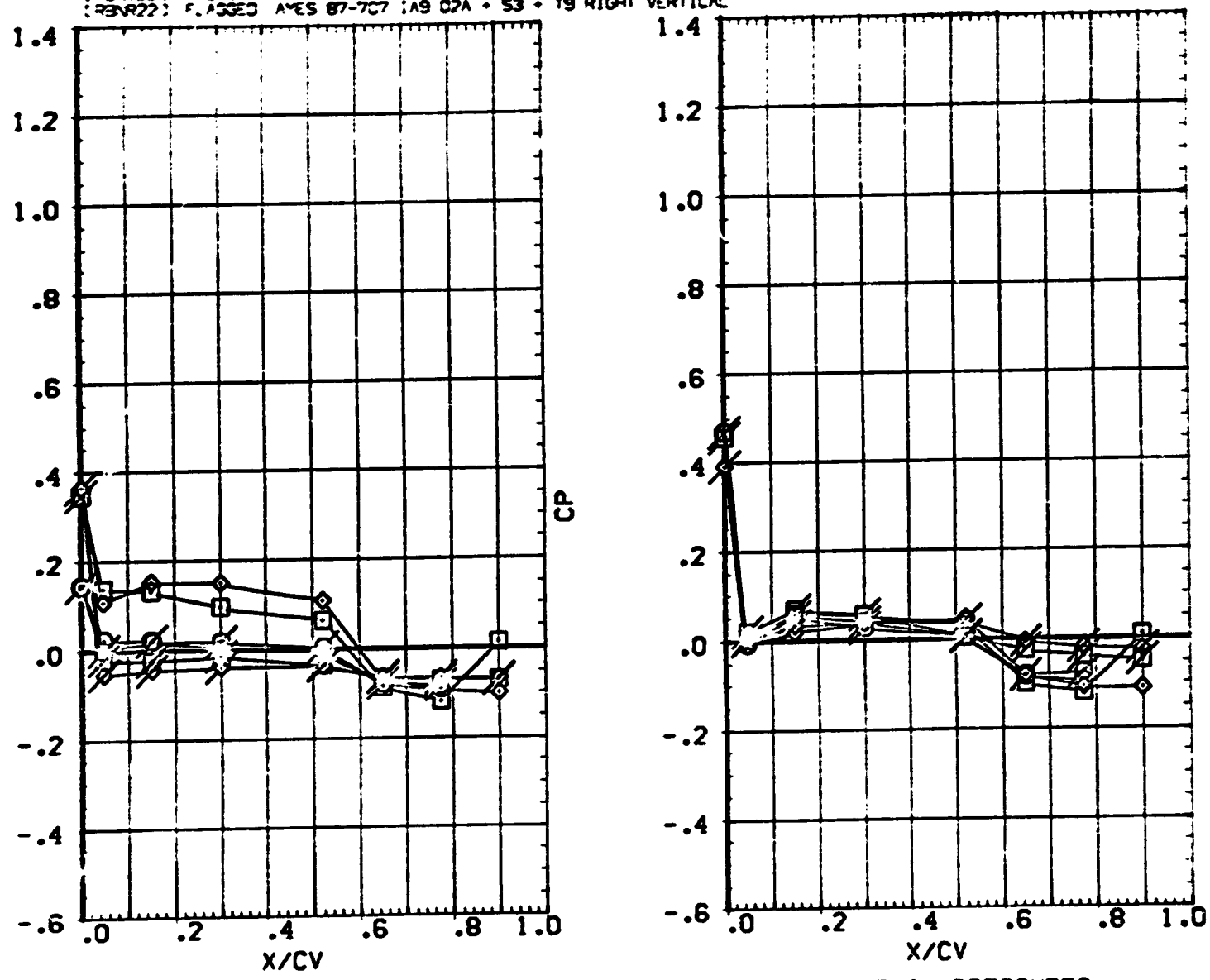
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA	MACH
○	.158	-4.230	2.999
□	.316	.060	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	-10.000	ELEVON	.000
ROLLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RSNV22)	OPEN	AMES 87-707 :A9 D2A + S3 + T9 LEFT VERTICAL
(RSNR22)	FLAGGED	AMES 87-707 :A9 D2A + S3 + T9 RIGHT VERTICAL



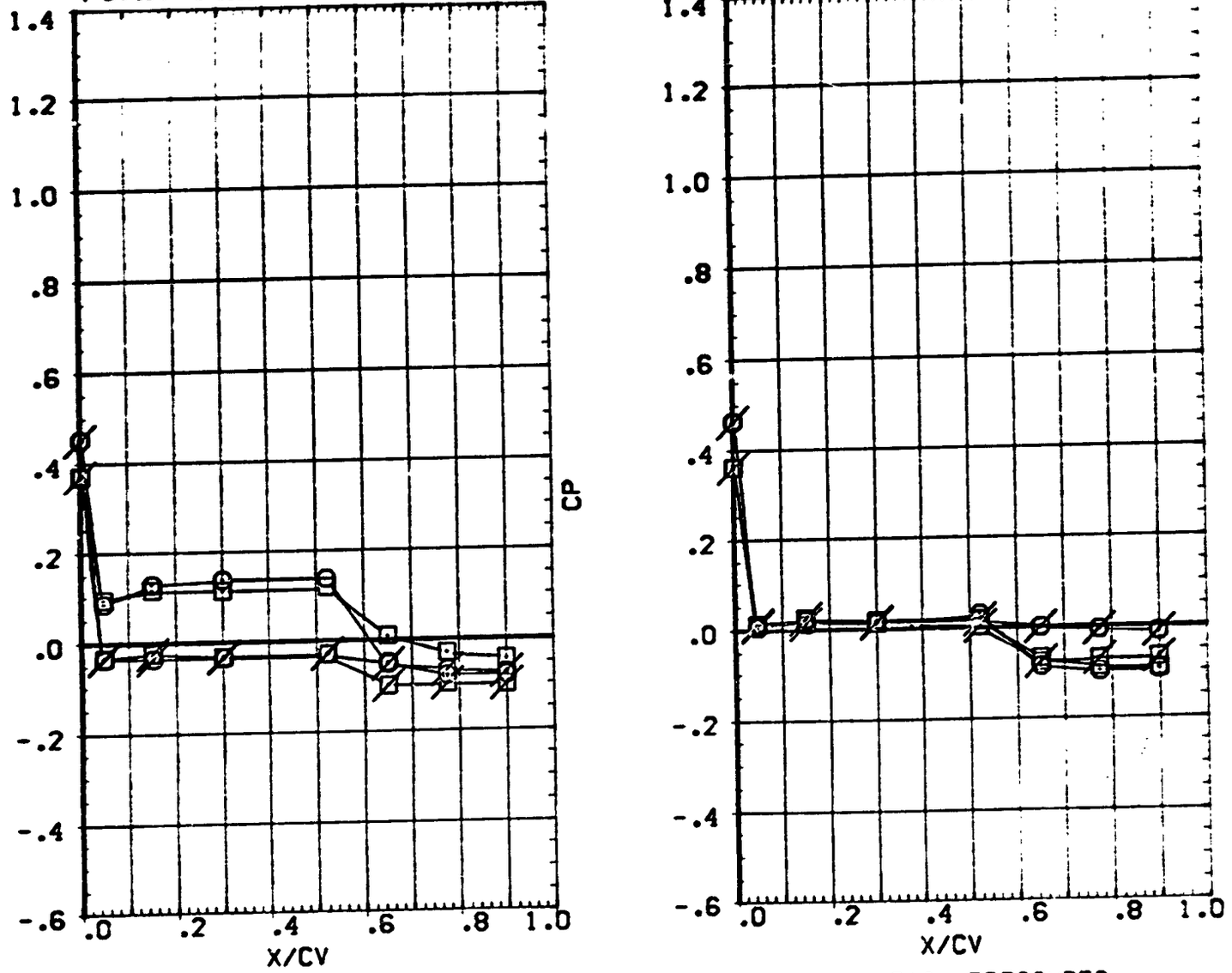
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA	MACH
	.840	-4.230	2.999
	.975	.060	

PARAMETRIC VALUES

ALPHAT	8.000	SPOILR	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
PSWV22	OPEN	AMES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
PSWV22	FLAGGED	AMES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



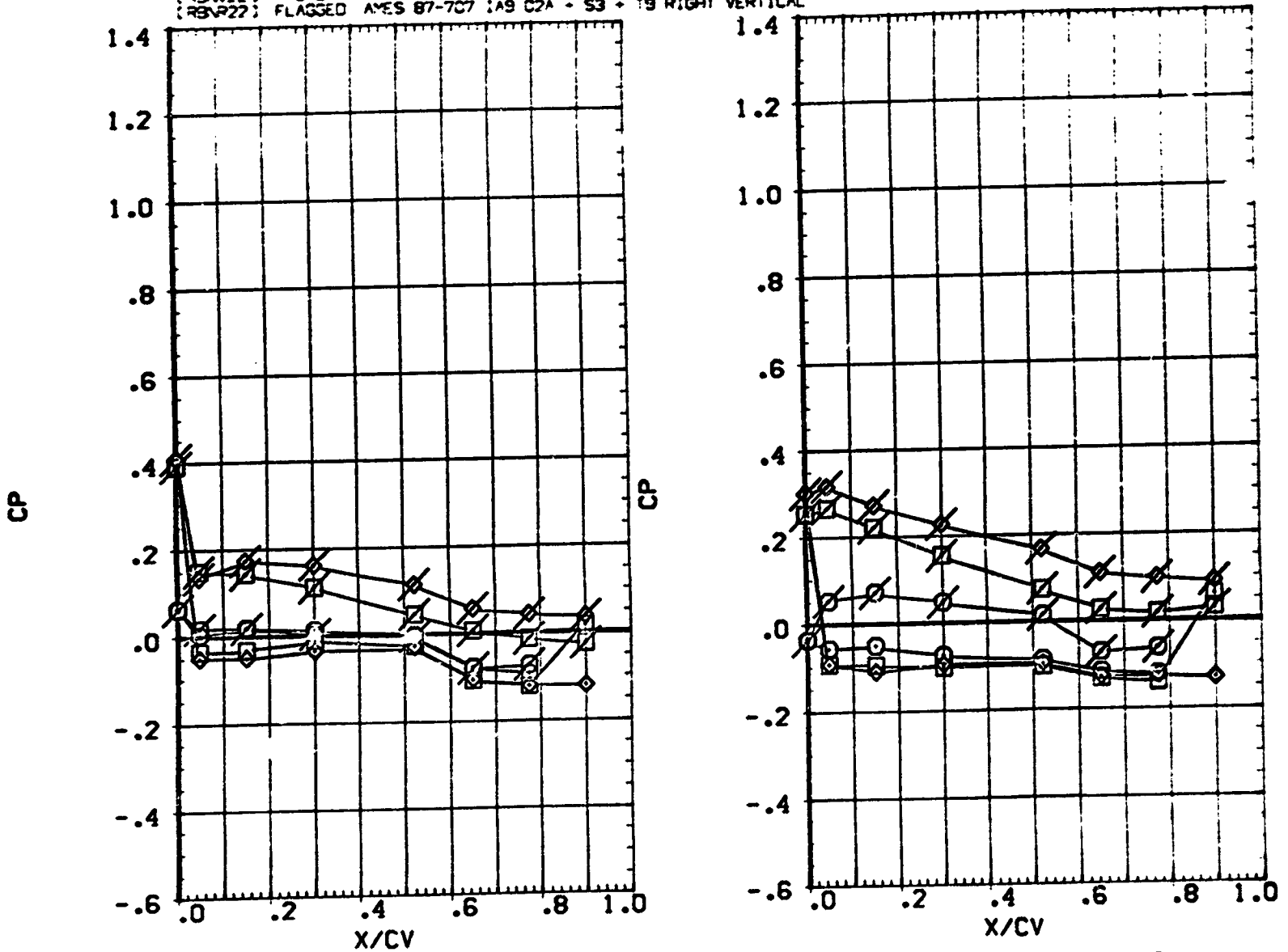
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETA°	MACH
○	.158	4.400	7.999
☐	.316	8.750	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	SPEVNC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

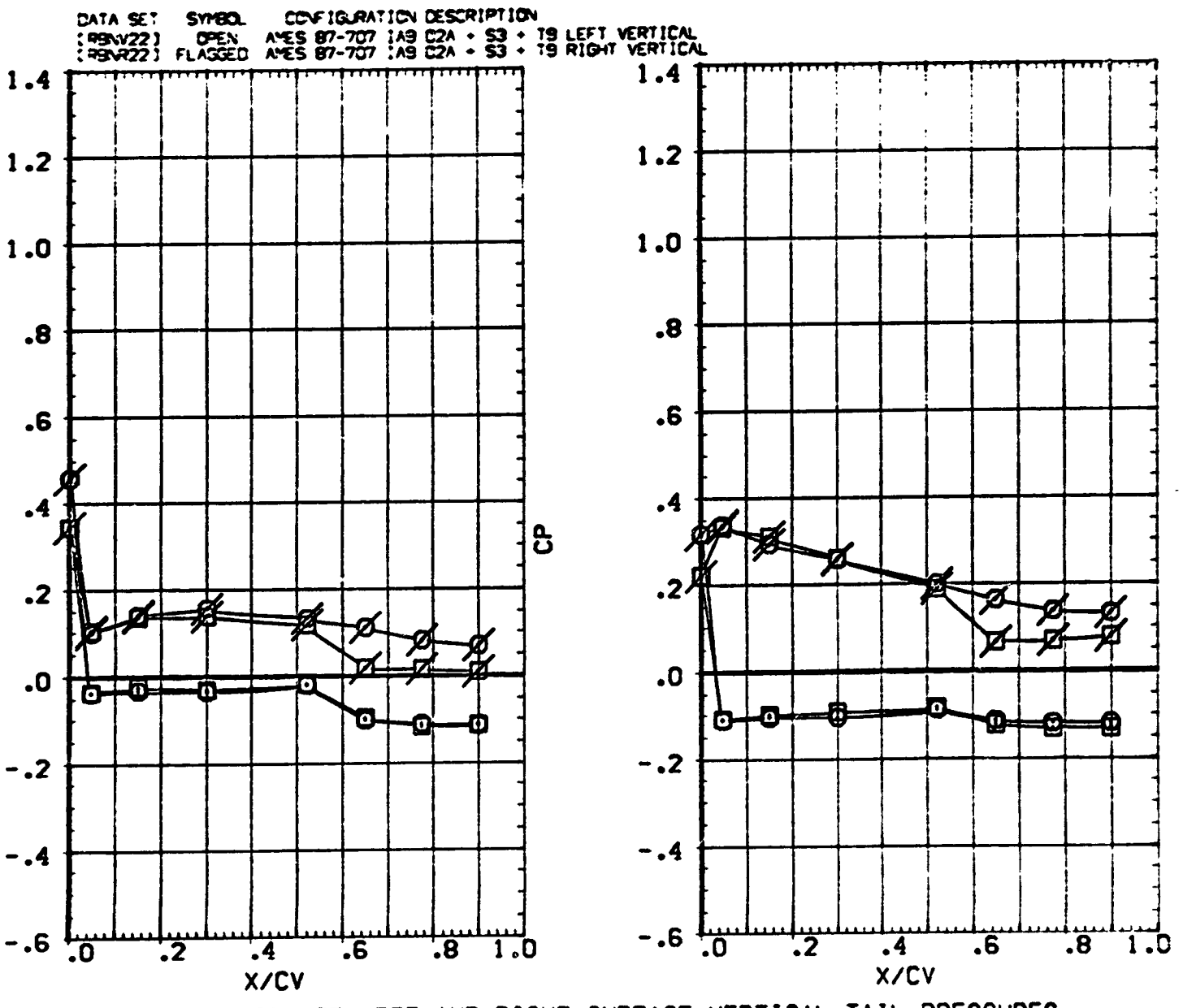
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNV22)	OPEN	AMES 87-707 (A9 C2A + S3 + T9 LEFT VERTICAL
(RBNP22)	FLAGGED	AMES 87-707 (A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

.975 8.750

RUDLR .000



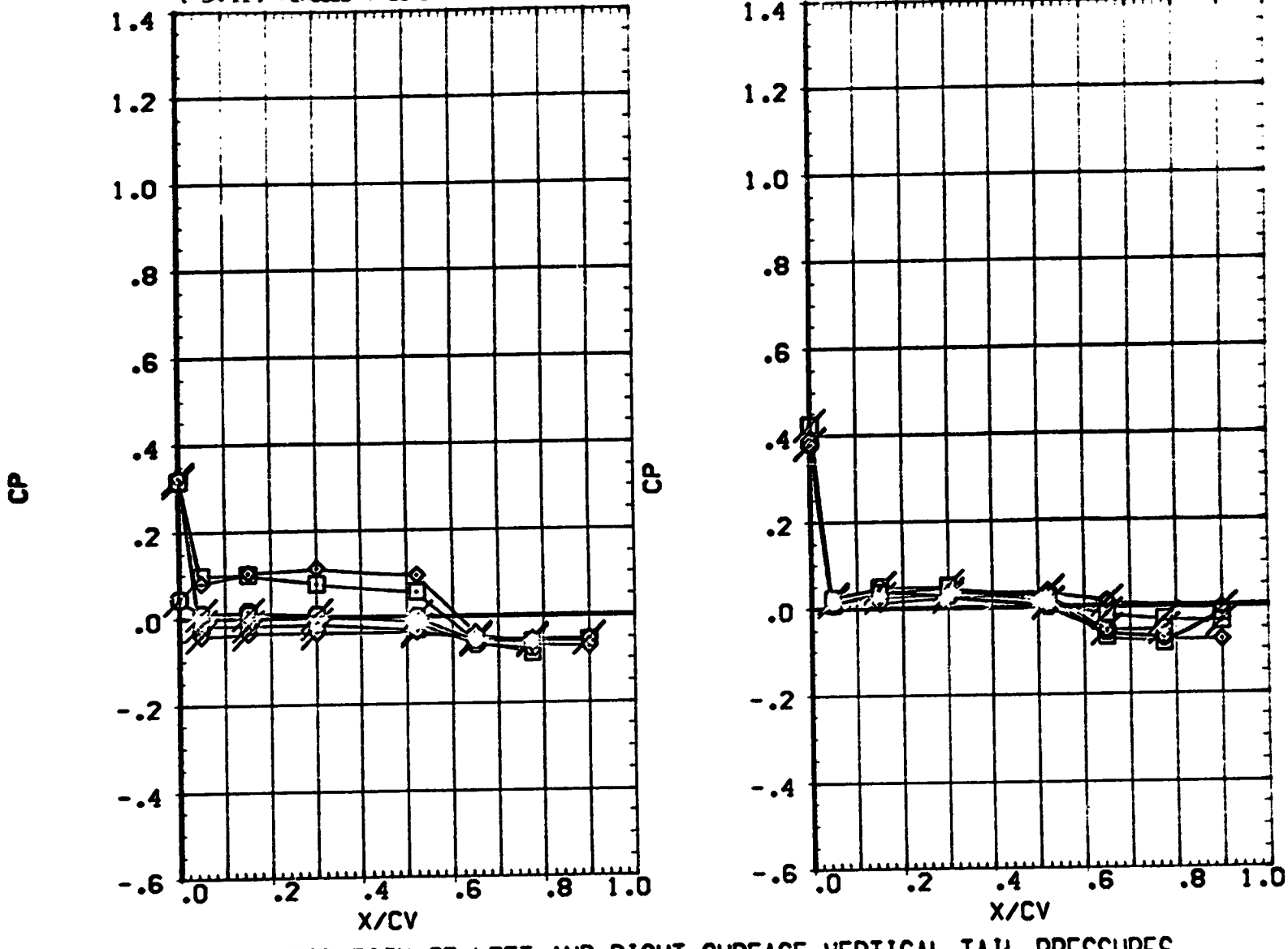
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
□	.158	-4.310	3.502
△	.316	.060	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	DRGINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

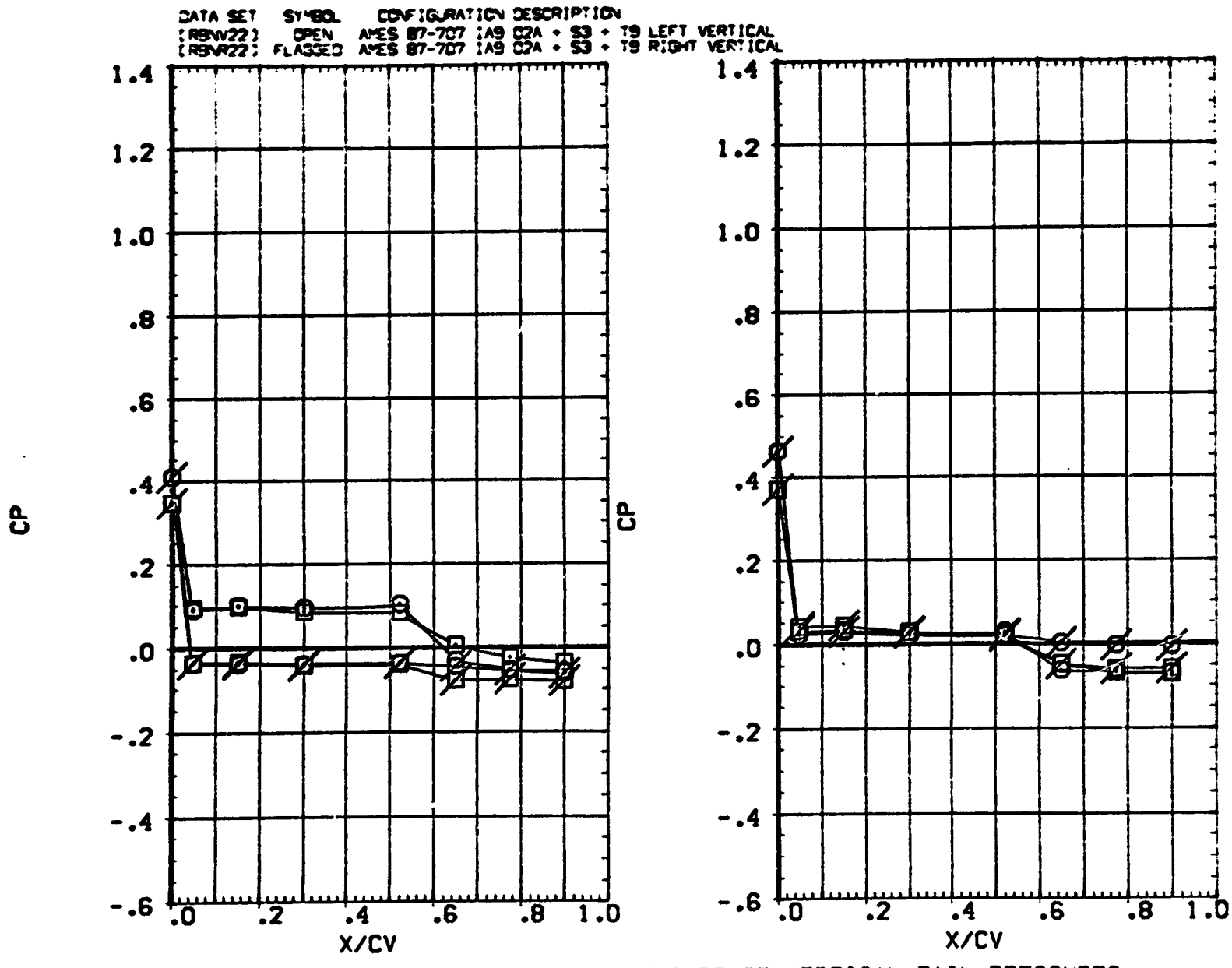
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(PBNV22)	OPEN	AMES 87-707 IA9 C2A + S3 + T9 LEFT VERTICAL
(PBNP22)	FLAGGED	AMES 87-707 IA9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

.925 .060

RLOFLR .000



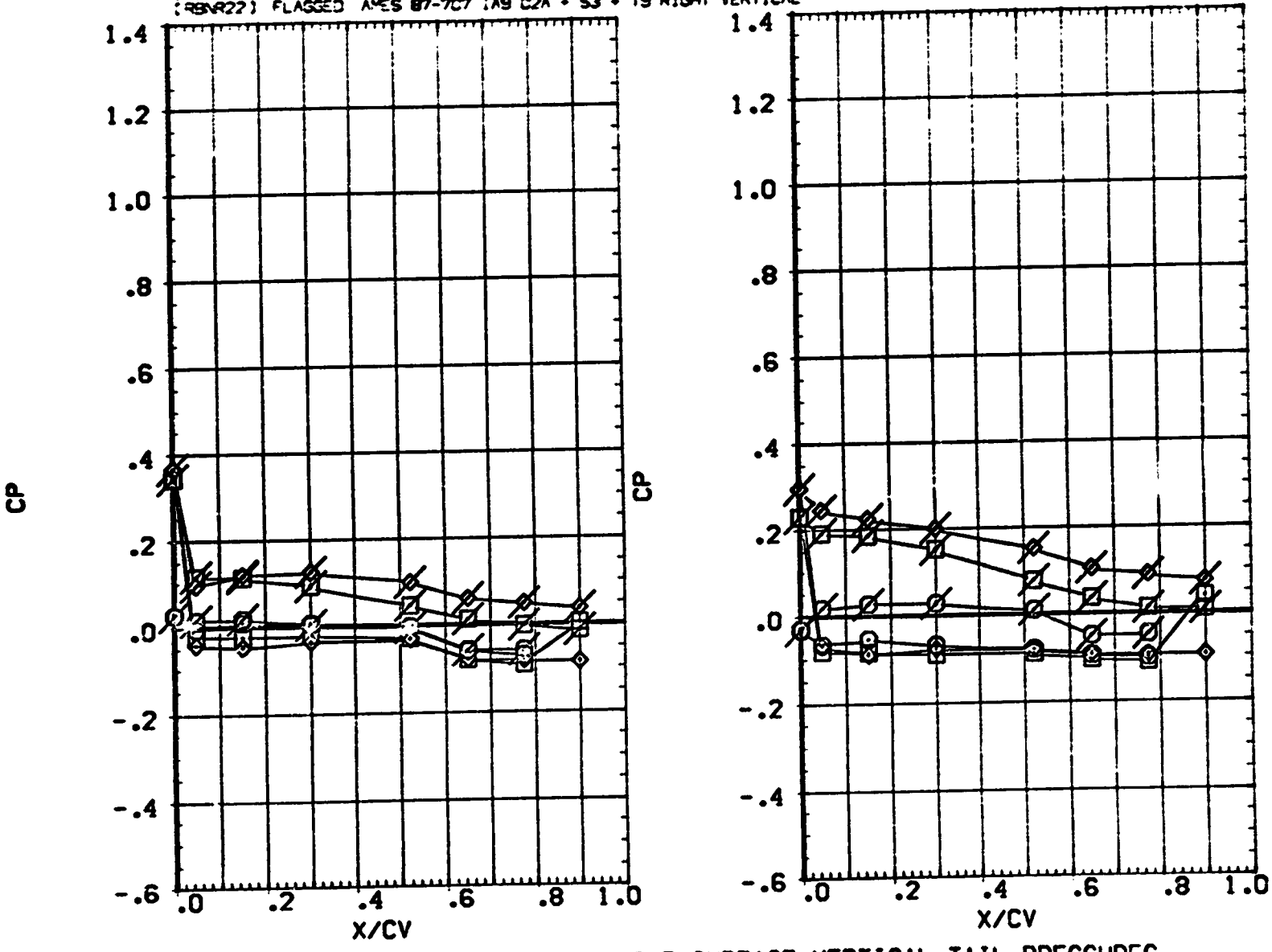
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	BETAT	MACH
○	.158	4.480	3.502
□	.316	8.910	
◇	.600		

PARAMETRIC VALUES

ALPHAT	8.000	ORBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBNV22)	OPEN	AMES 87-707 (A9 C2A + S3 + T9 LEFT VERTICAL
(RBNR22)	FLAGGED	AMES 87-707 (A9 C2A + S3 + T9 RIGHT VERTICAL

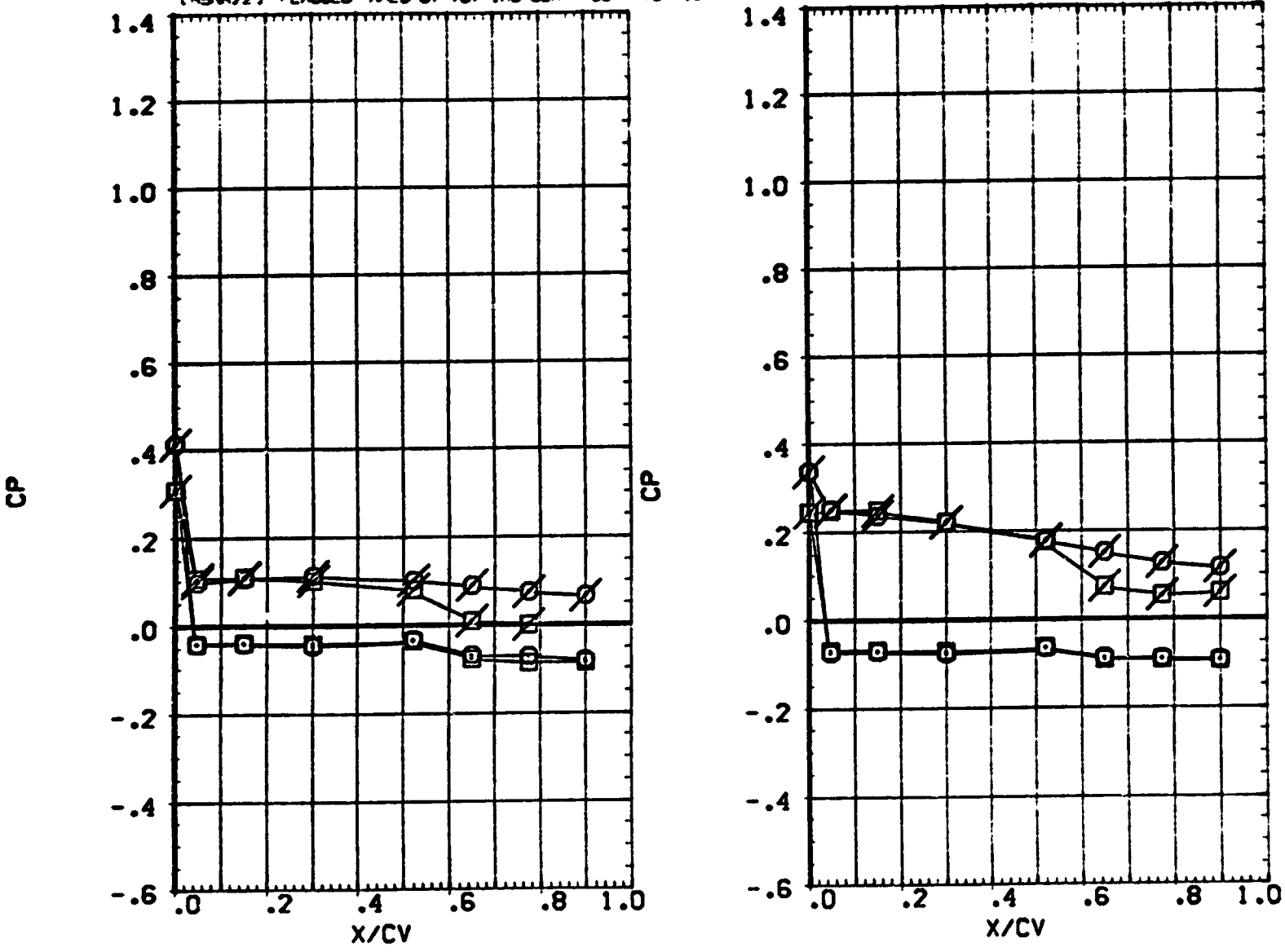


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

	.840	4.480	3.502
	.925	8.910	

ALPHAT	8.000	ORBINC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBWV22)	OPEN	AMES 87-707 IA9 C2A + S3 + T9 LEFT VERTICAL
(RBWR22)	FLAGGED	AMES 87-707 IA9 C2A + S3 + T9 RIGHT VERTICAL



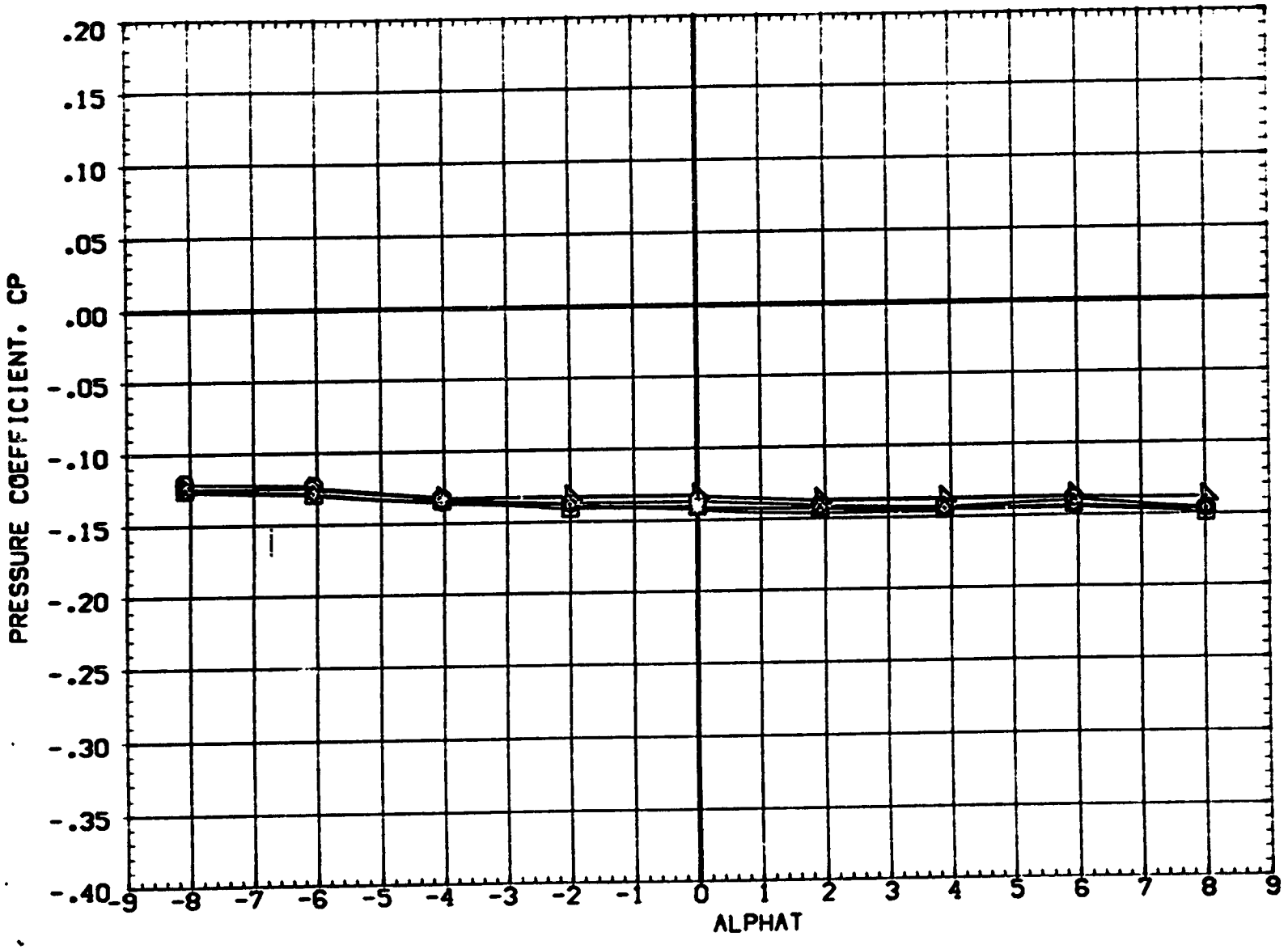
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 ORBITER BASE (RBNC01)

SYMBOL	TAP NO	A	MACH
○	1.000	.000	2.498
□	2.000		
◇	3.000		
△	4.000		
▽	5.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



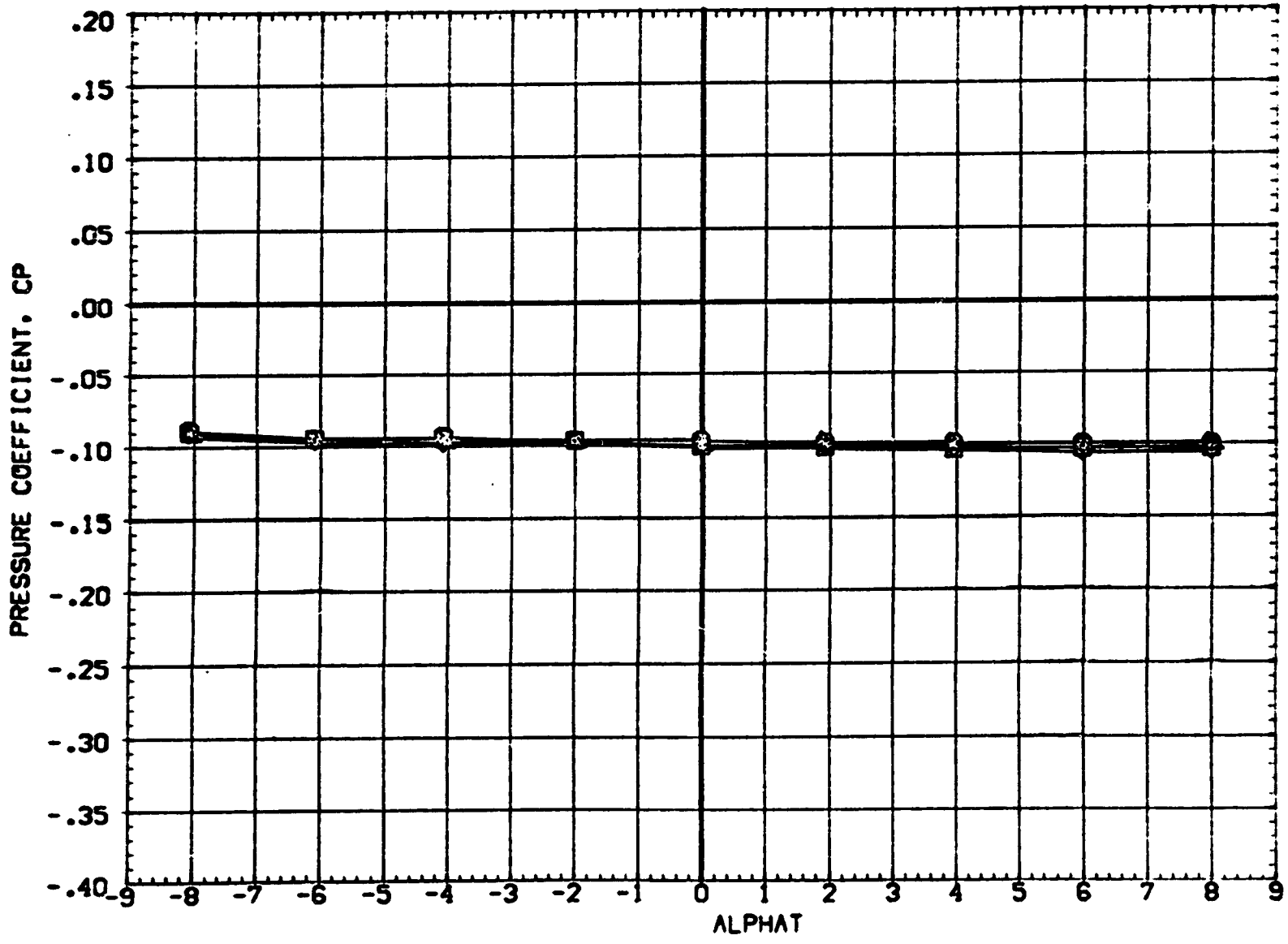
ORBITER BASE PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 ORBITER BASE (RBNC01)

SYMBOL	TAP NO	A	MACH
◇	1.000	.000	2.999
	2.000		
	3.000		
	4.000		
	5.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



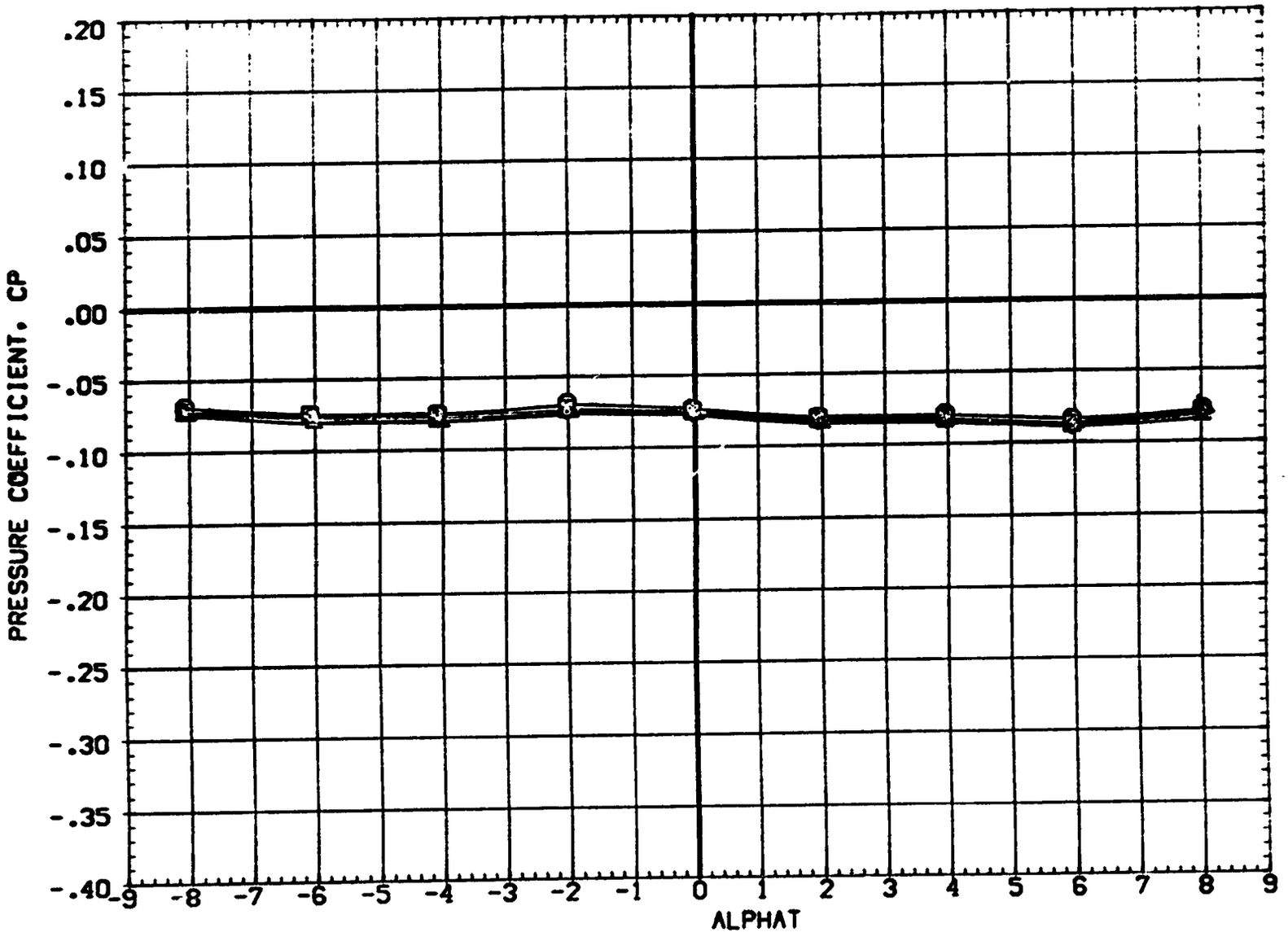
ORBITER BASE PRESSURES

AMES 87-7C7 :A9 02A + S3 + T9 ORBITER BASE (RBNC01)

SYMBOL	TAP NO	A	MACH
○	1.0000	.000	3.502
□	2.0000		
◇	3.0000		
△	4.0000		
▽	5.0000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



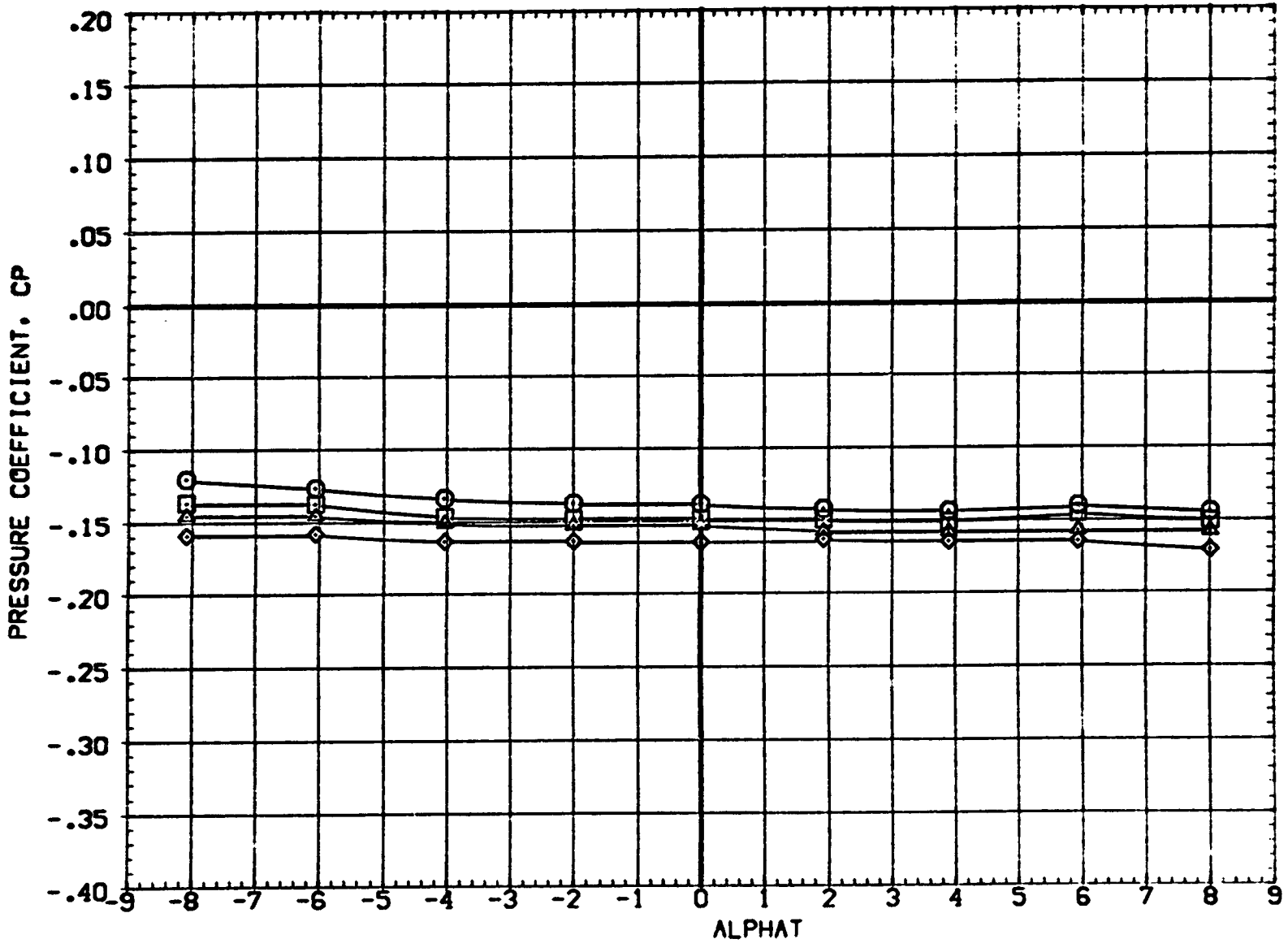
ORBITER BASE PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 ORBITER BASE (RBNCO:)

SYMBOL	TAP NC	A	MACH
□	6.000	.000	2.498
◇	7.000		
△	8.000		
	9.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



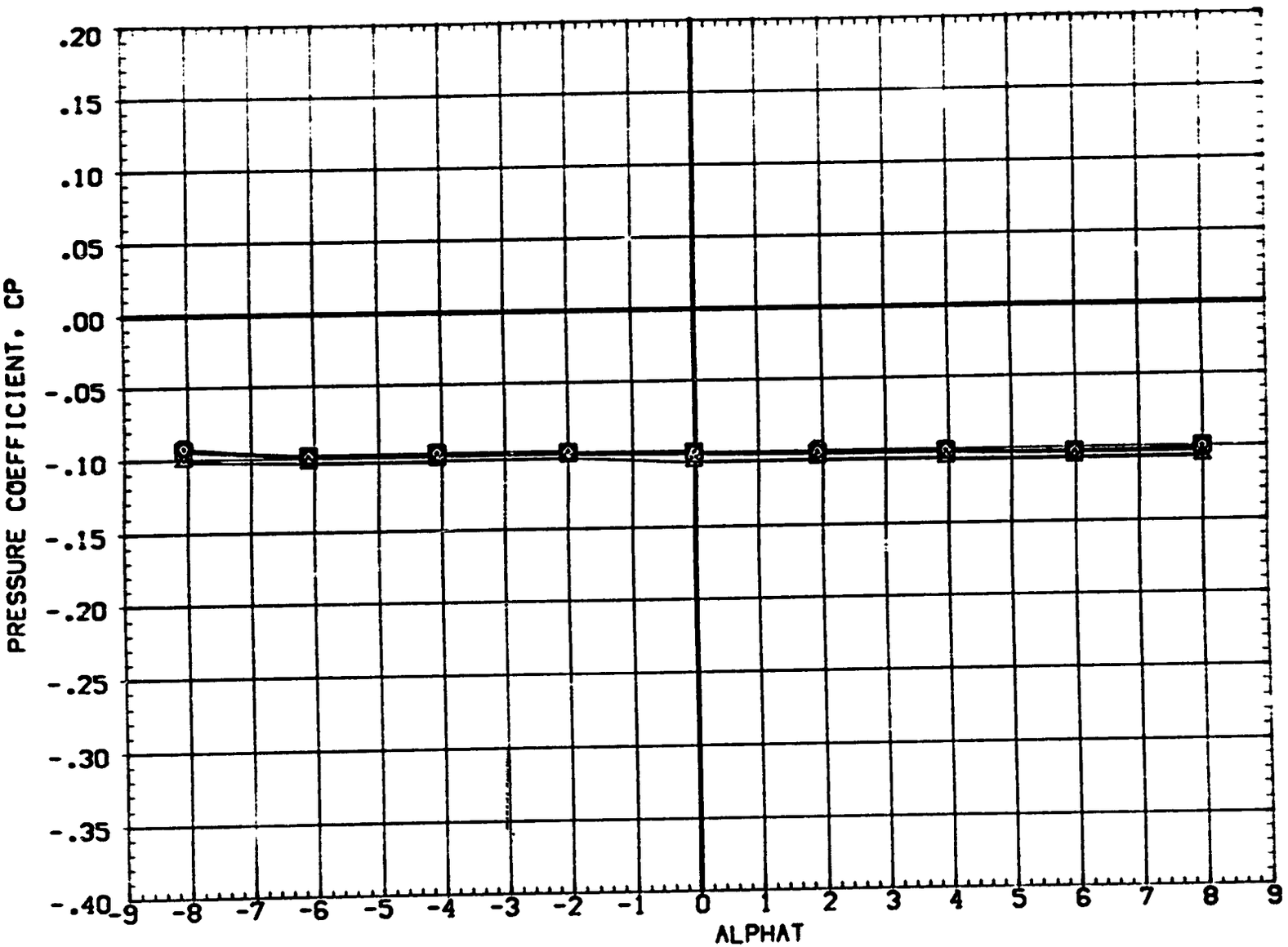
ORBITER BASE PRESSURES

AMES 87-7C7 IA9 C2A + S3 + T9 ORBITER BASE (RBNC01)

SYMBOL	TAP NO	A	MACH
○	6.000	.000	2.999
◇	7.000		
□	8.000		
△	9.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



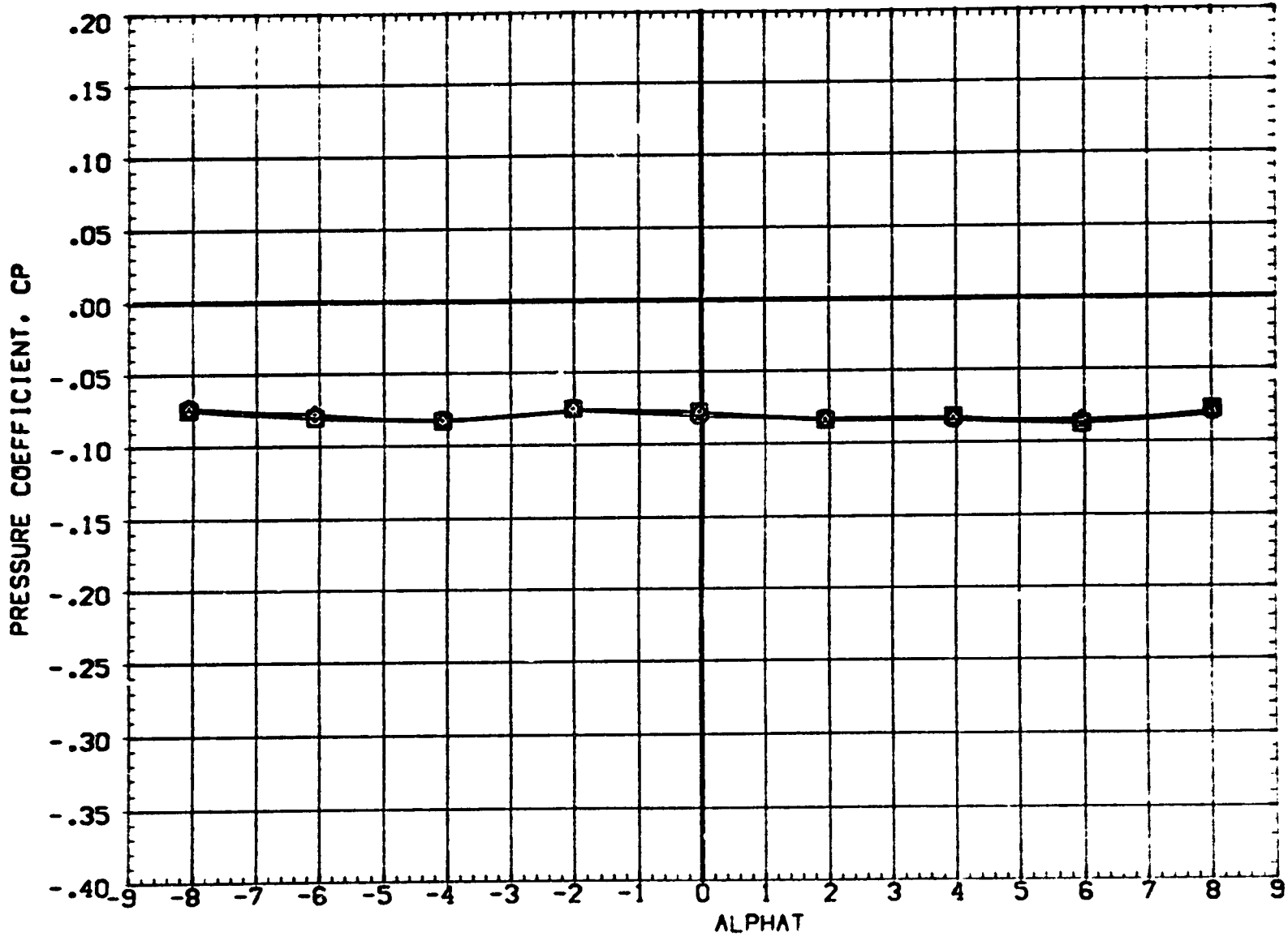
ORBITER BASE PRESSURES

AMES 87-707 :A9 02A + S3 + T3 ORBITER BASE (RBNC01)

SYMBOL	TAP NO	A	MACH
○	6.000	.000	3.502
◇	7.000		
◇	8.000		
△	9.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



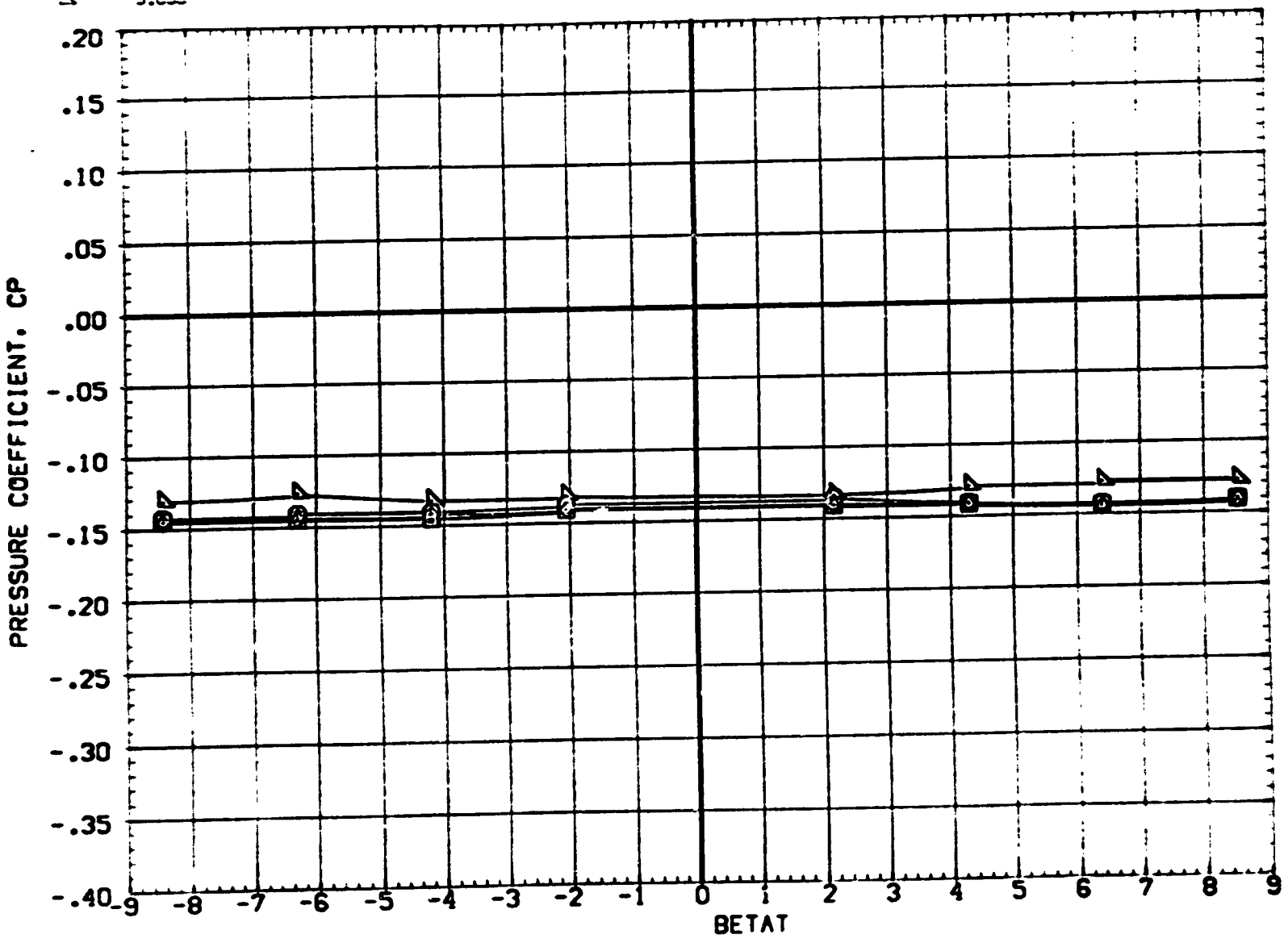
ORBITER BASE PRESSURES

AMES 87-707 IA9 02A + S3 + T9 ORBITER BASE (RBNC06)

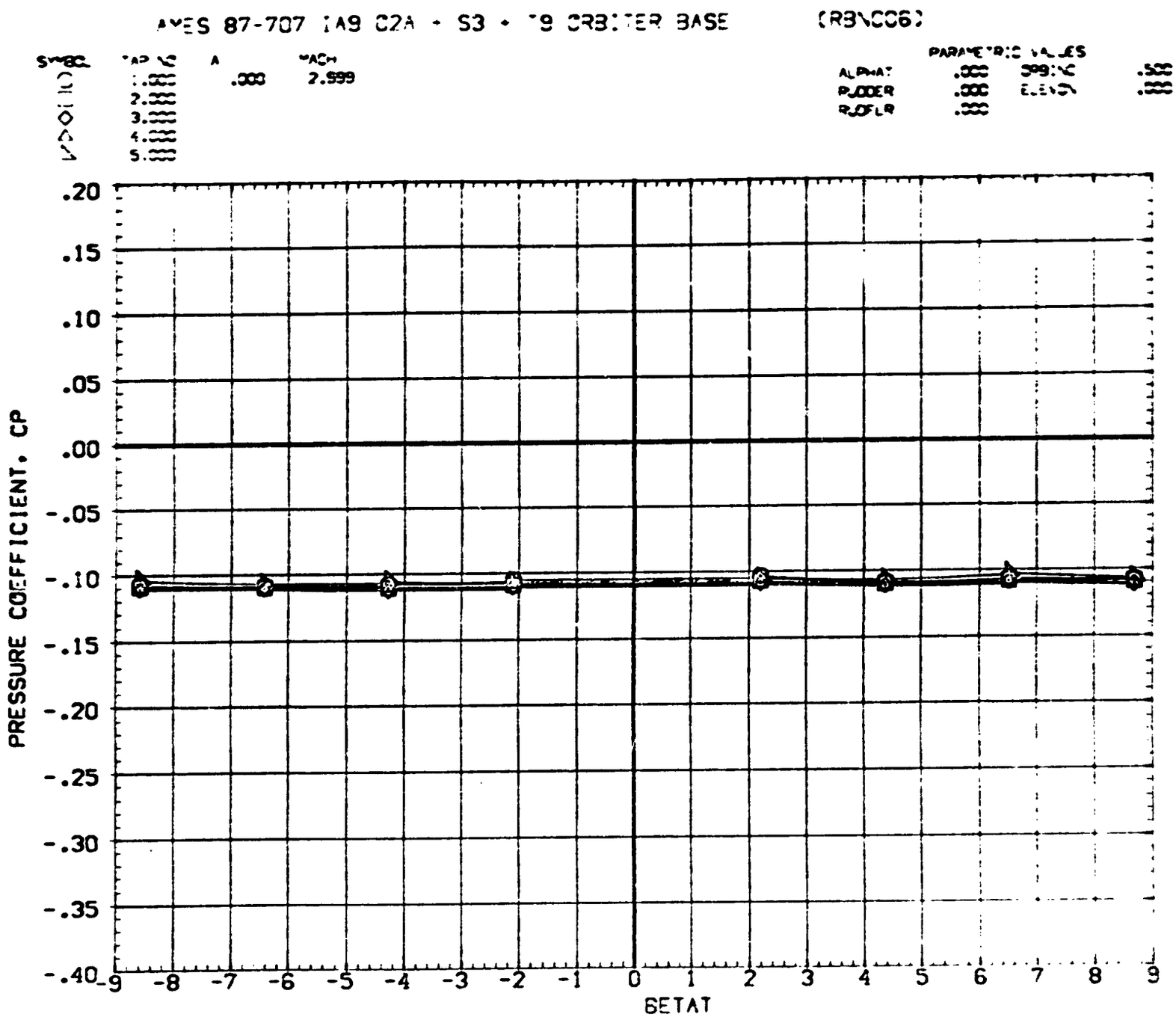
SYMBOL	TAP NO	A	MACH
▽	1.000	.000	2.498
△	2.000		
◇	3.000		
○	4.000		
▷	5.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDLR	.000		



ORBITER BASE PRESSURES



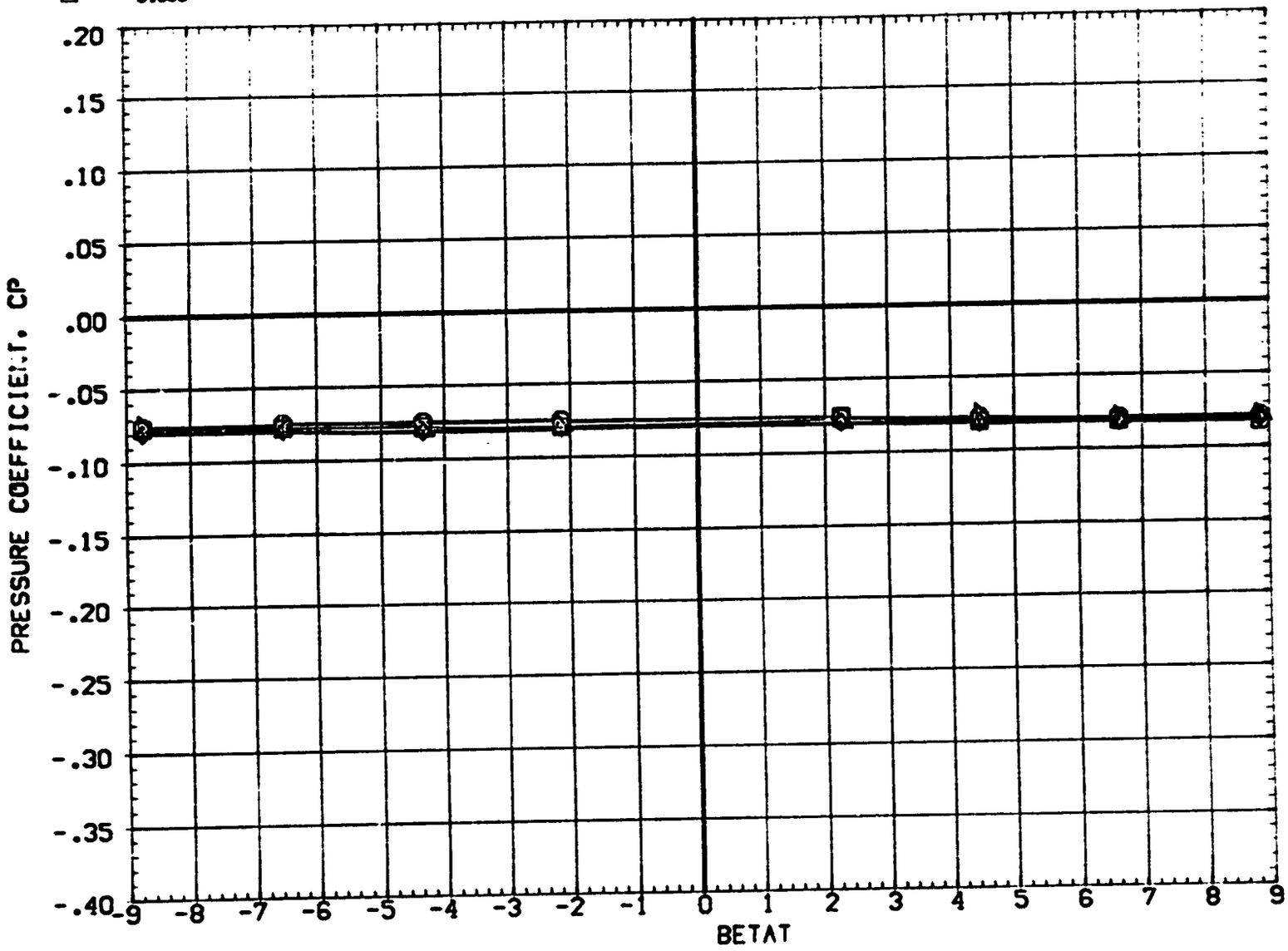
ORBITER BASE PRESSURES

AYES 87-707 :A9 C2A + S3 + T8 ORBITER BASE (RBNC06)

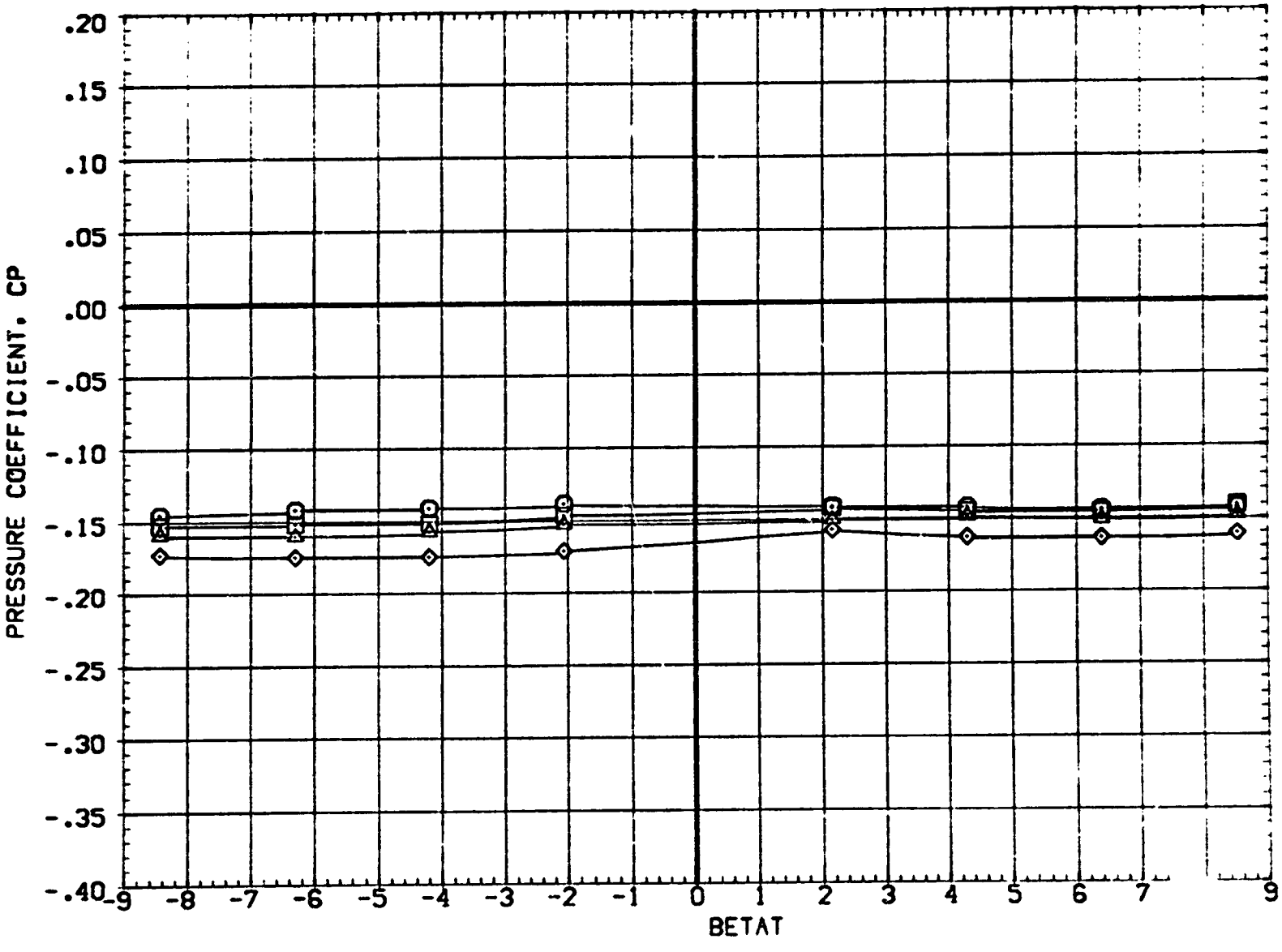
SYMBOL	TAP NO	A	MACH
○	1.000	.000	3.502
□	2.000		
◇	3.000		
△	4.000		
▽	5.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



ORBITER BASE PRESSURES

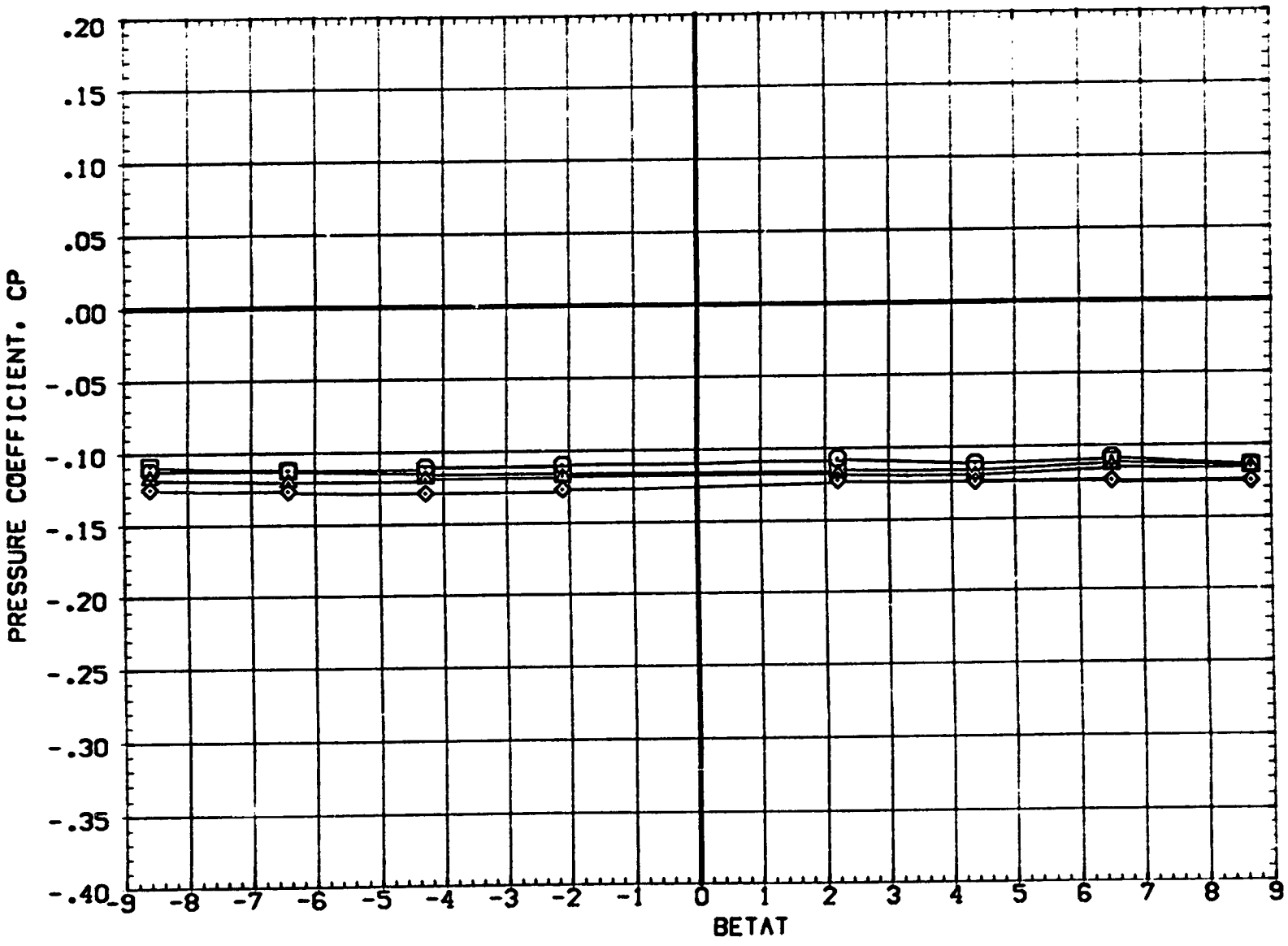


ORBITER BASE PRESSURES

SYMBOL	TAP NO	A	MACH
○	6.000	.000	2.999
□	7.000		
◇	8.000		
△	9.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



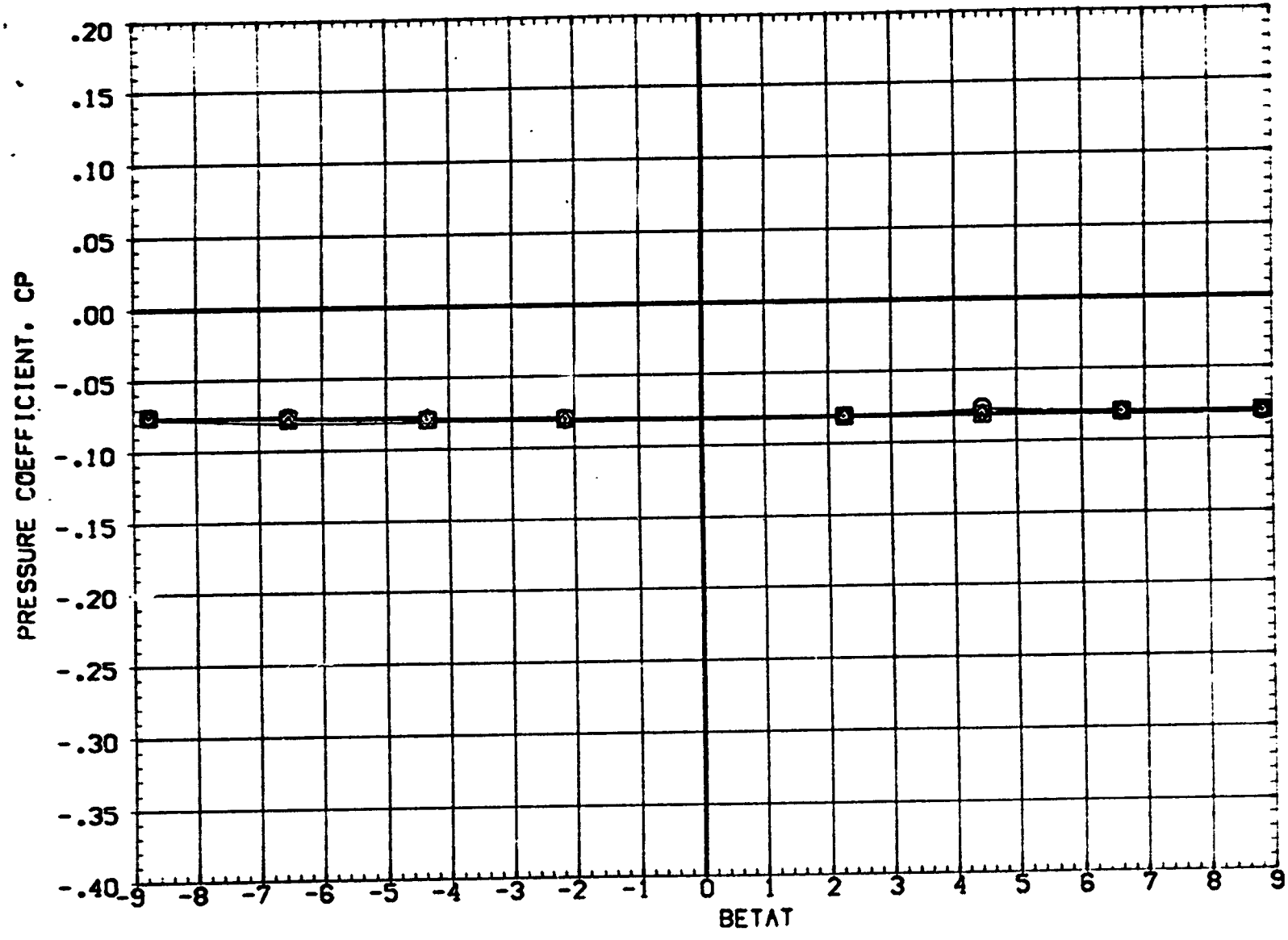
ORBITER BASE PRESSURES

AMES 87-707 IA9 02A + 53 + 19 ORBITER BASE (RBNC00)

SYMBOL	TAP NO	A	MACH
○	6.000	.000	3.502
□	7.000		
◇	8.000		
△	9.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



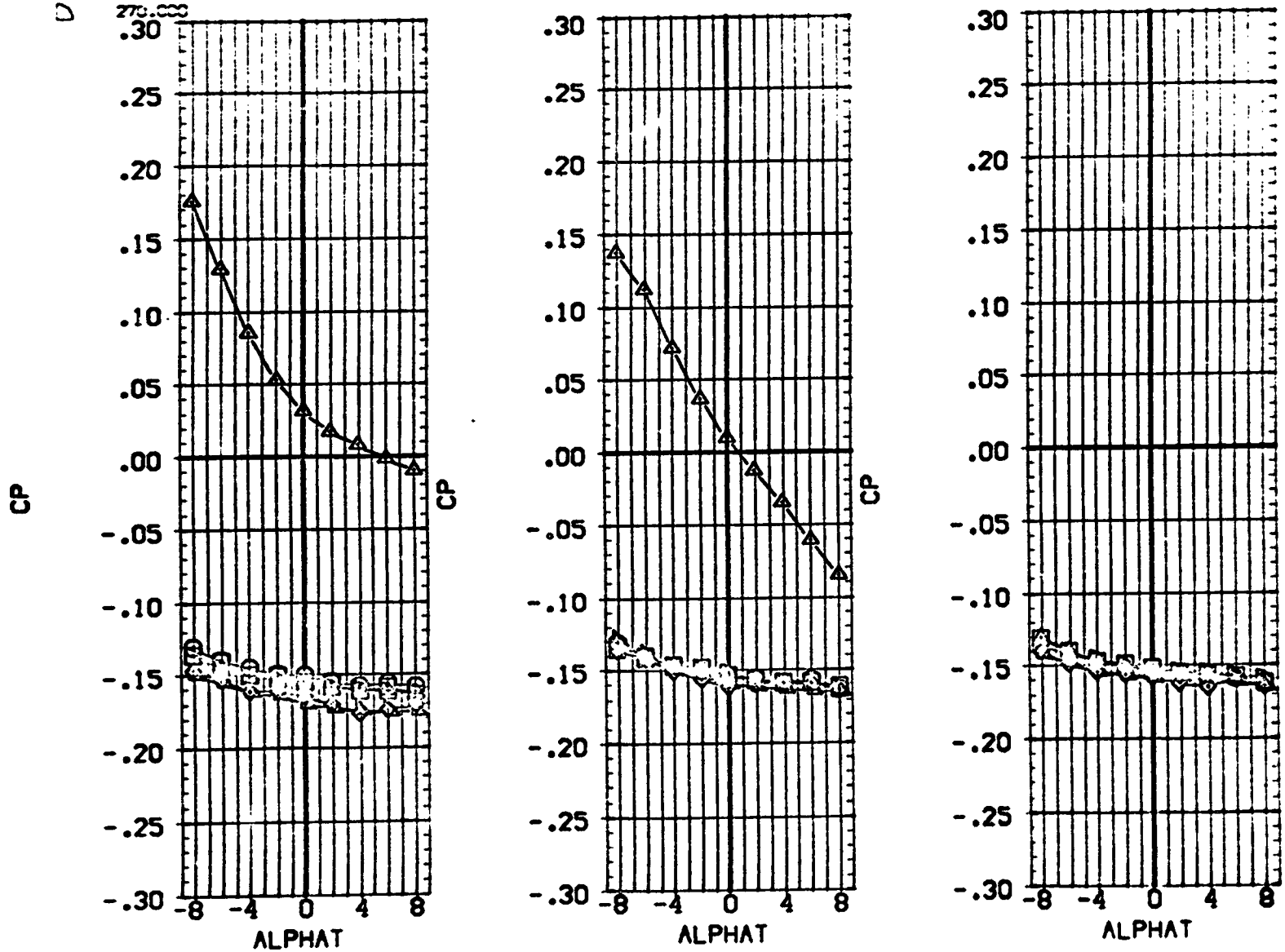
ORBITER BASE PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 UPPER MPS NOZZLE (RBND01)

SYMBOL	PHI	X/LNP	MACH
△	.000	.250	2.498
◇	90.000	.500	
▷	135.000	.750	
○	180.000		
▽	225.000		
◁	270.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



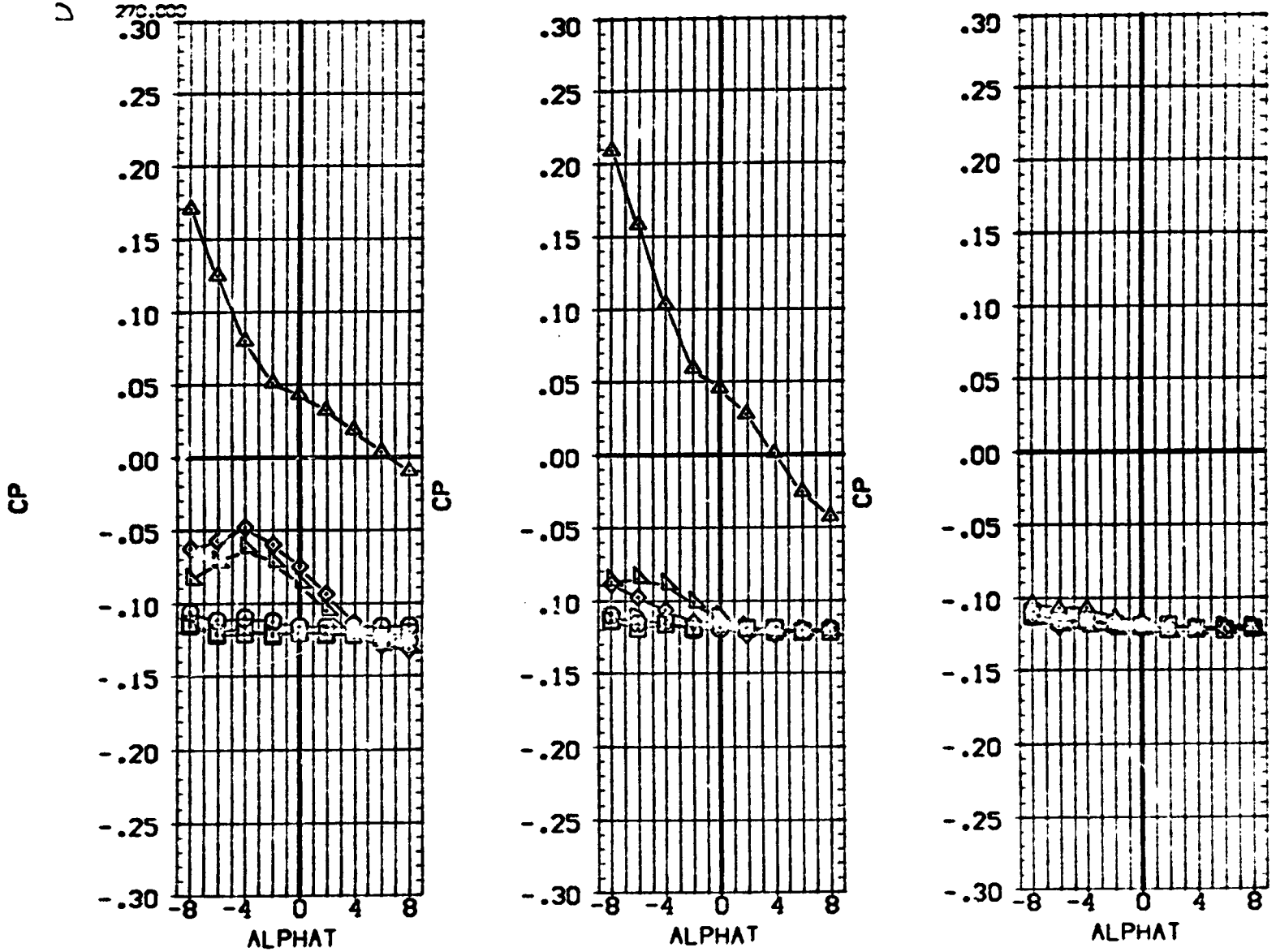
UPPER MPS NOZZLE PRESSURES

AMES 87-707 IA8 02A + S3 + T9 UPPER MPS NOZZLE (RBN001)

SYMBOL	PHI	X/LNP	MACH
□	.000	.250	2.999
△	90.000	.500	
◇	135.000	.750	
	180.000		
	225.000		
	270.000		

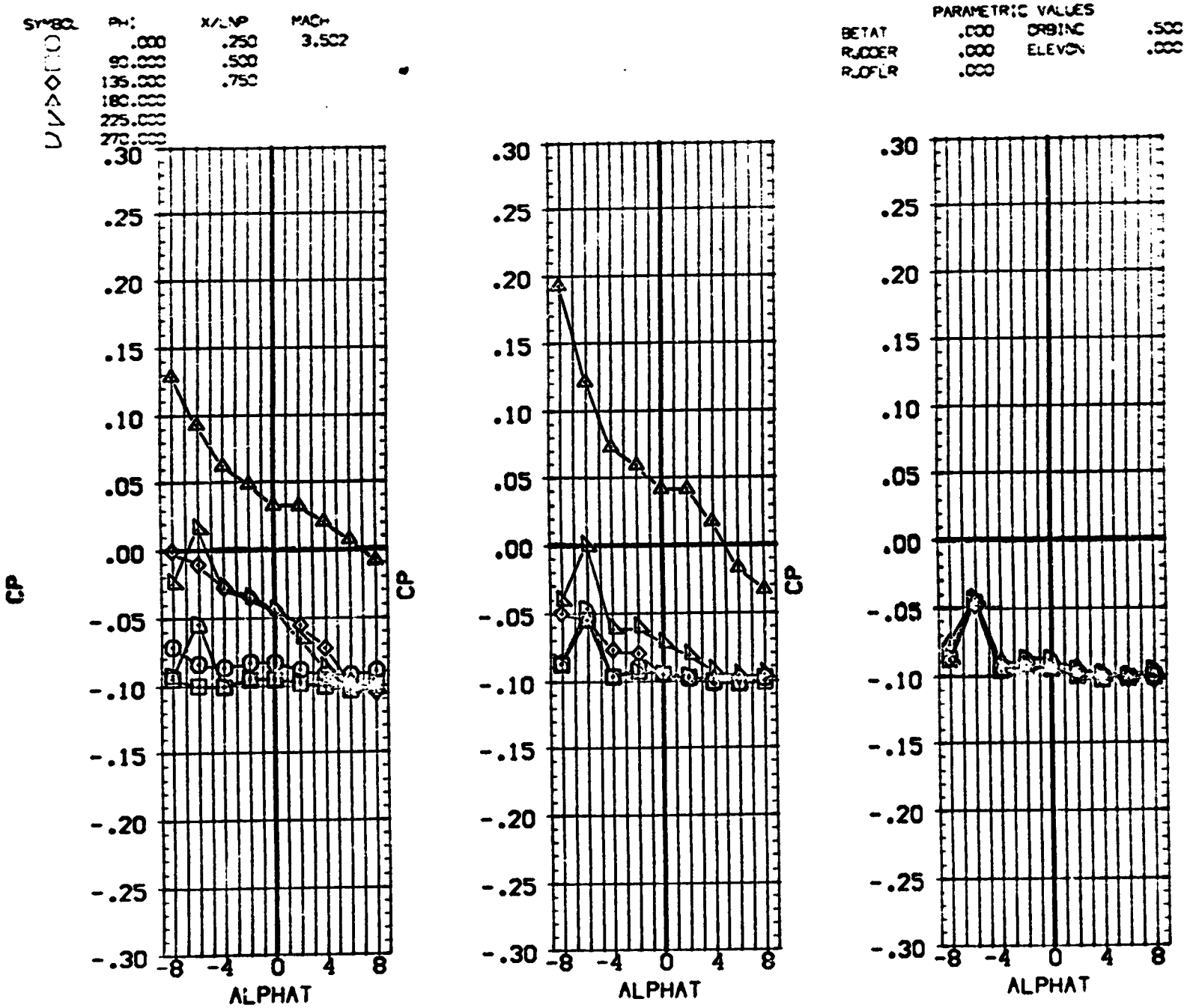
PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLP	.000		



UPPER MPS NOZZLE PRESSURES

AMES 87-707 IA9 C2A + S3 + Y9 UPPER MPS NOZZLE (RBNJ01)



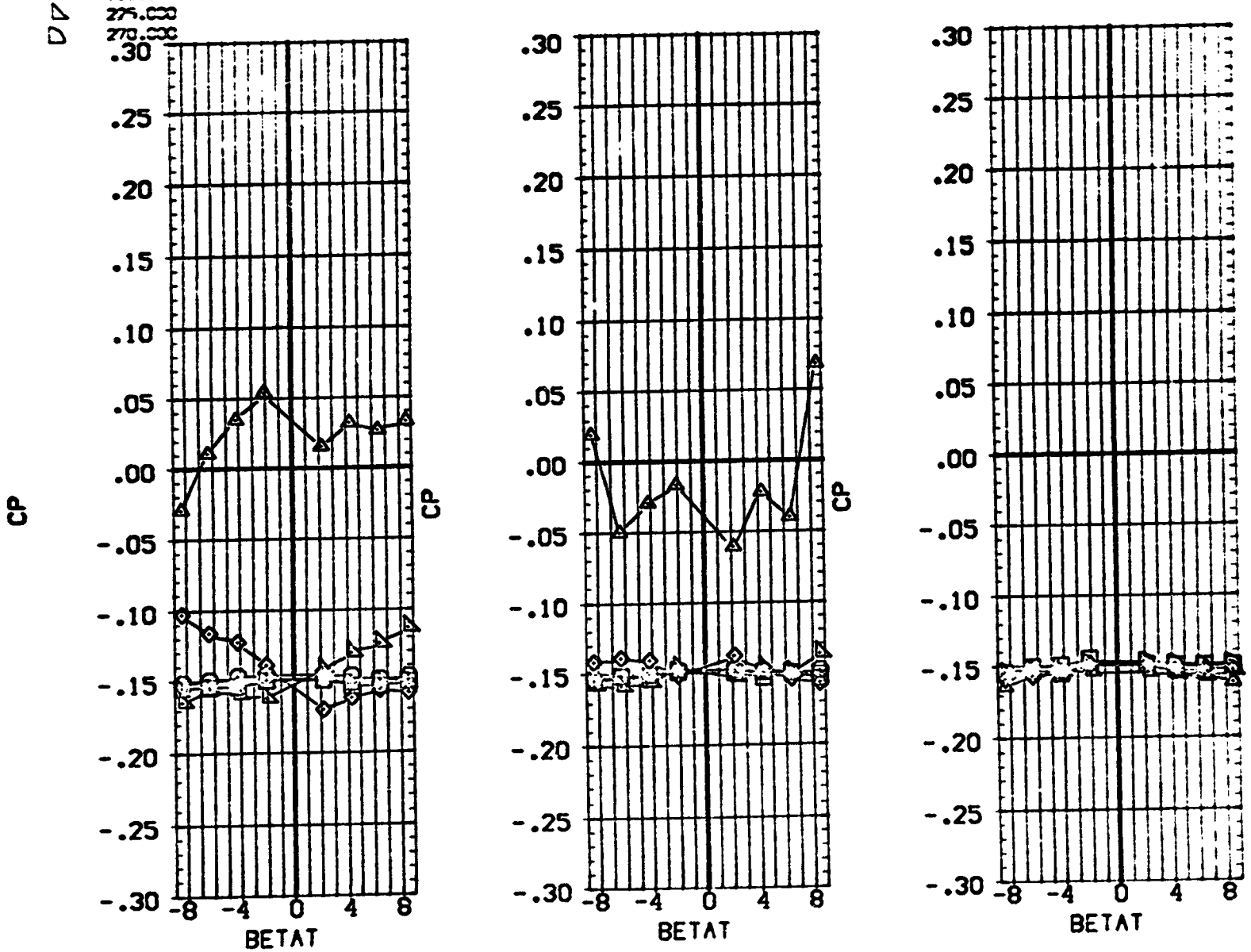
UPPER MPS NOZZLE PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 UPPER MPS NOZZLE (RBN006)

SYMBOL	PHI	X/LNP	MACH
○	.000	.250	2.498
□	90.000	.500	
◇	135.000	.750	
△	180.000		
◁	225.000		
▽	270.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



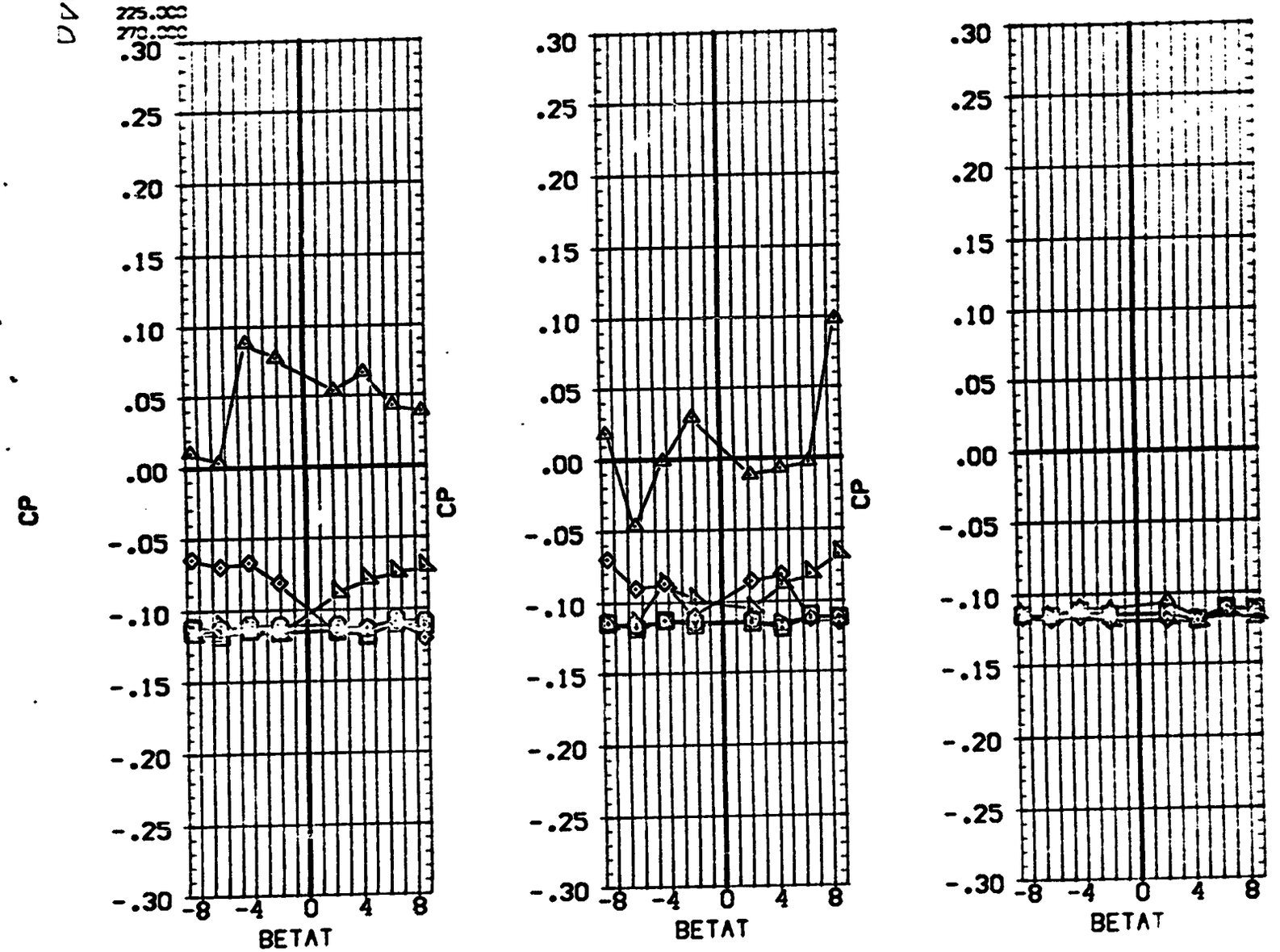
UPPER MPS NOZZLE PRESSURES

AMES 87-707 :A9 02A + S3 + T9 UPPER MPS NOZZLE (RBND06)

SYMBOL	PHI	X/LNP	MACH
◇	.000	.250	2.999
△	90.000	.500	
	135.000	.750	
	180.000		
	225.000		
	270.000		

PARAMETRIC VALUES

ALPHAT	.000	SPOINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



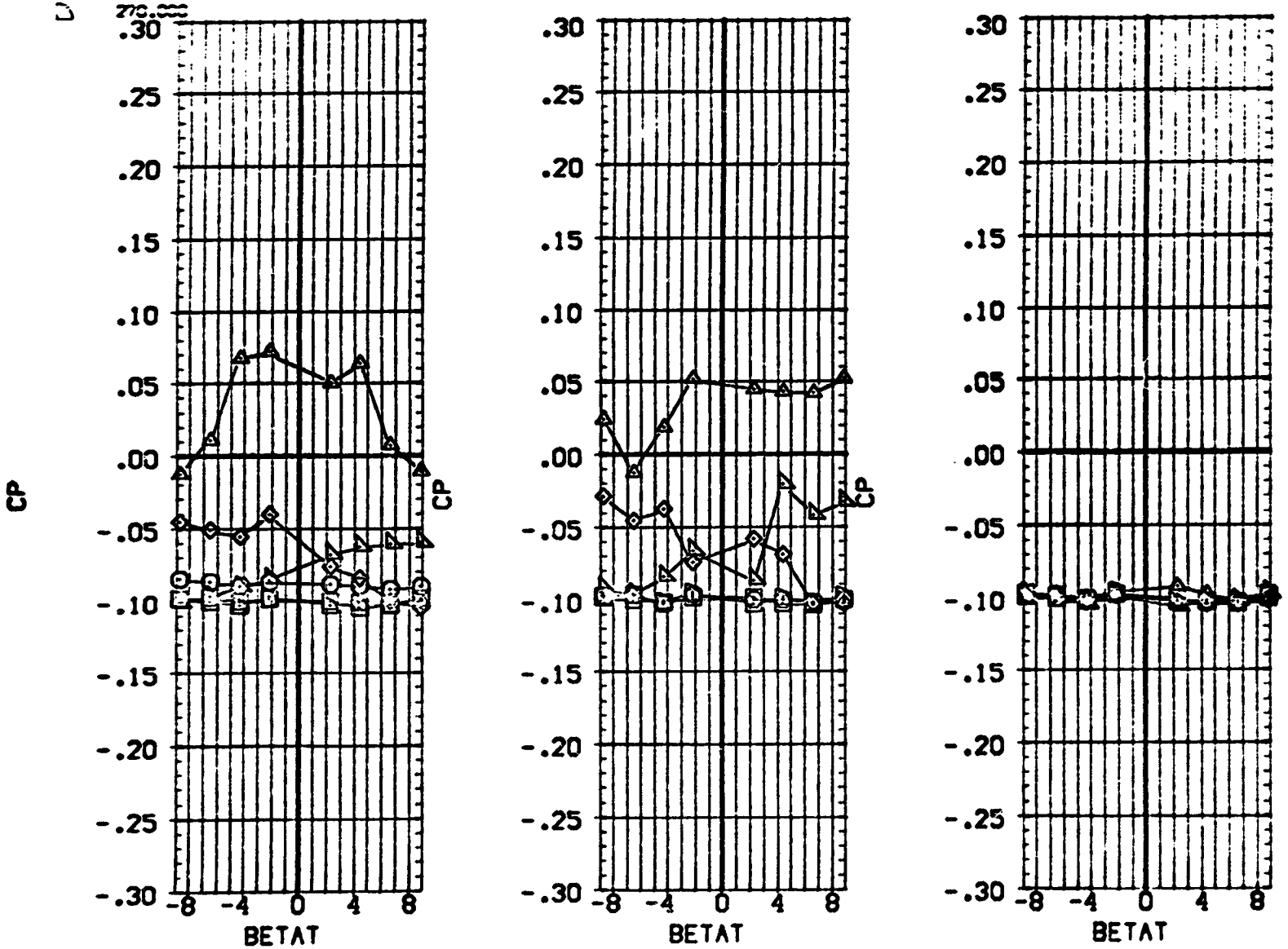
UPPER MPS NOZZLE PRESSURES

AMES 87-707 :A9 32A + S3 + T9 UPPER MPS NOZZLE (RBND06)

SYMBOL	PHI	X/L_NP	MACH
▽	.000	.250	3.502
△	90.000	.500	
◇	135.000	.750	
□	180.000		
○	225.000		
	270.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



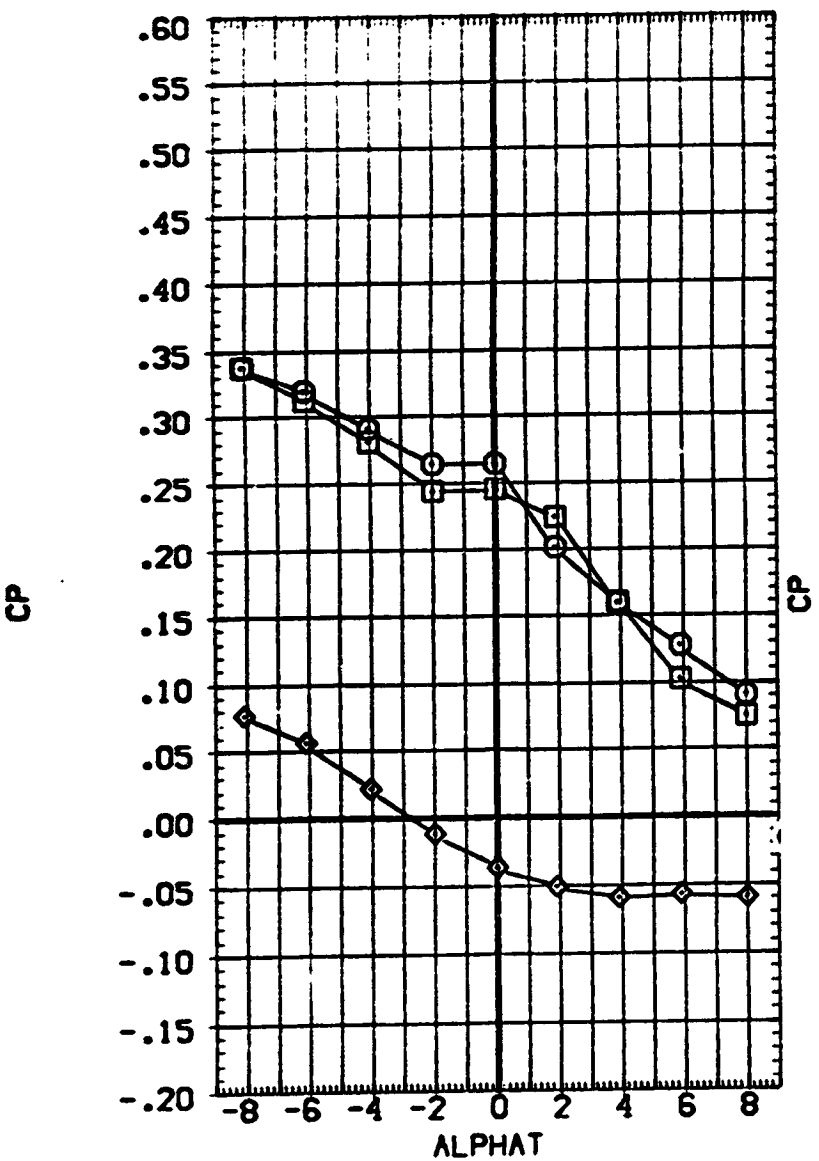
UPPER MPS NOZZLE PRESSURES

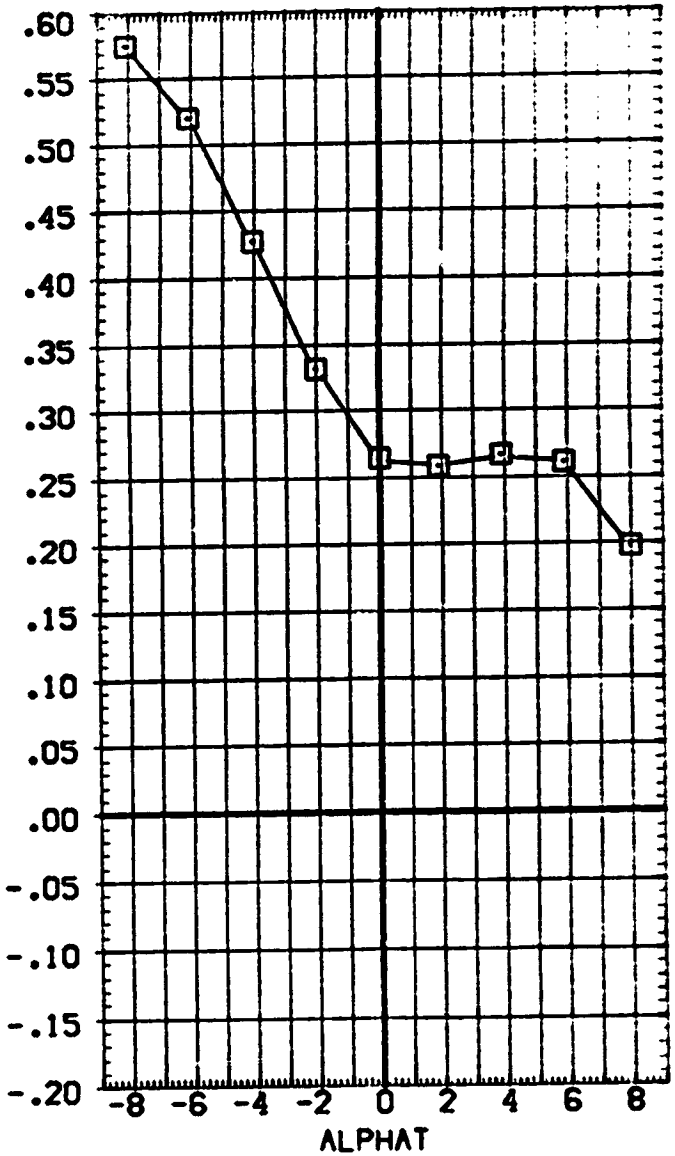
AMES 87-707 IA9 32A + S3 + T9 OMS NOZZLE (RBNE01)

SYMBOL	PHI	X/L	MACH
○	135.000	.200	2.498
□	180.000	.400	
◇	225.000		

PARAMETRIC VALUES

BETAT	.000	SRBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		





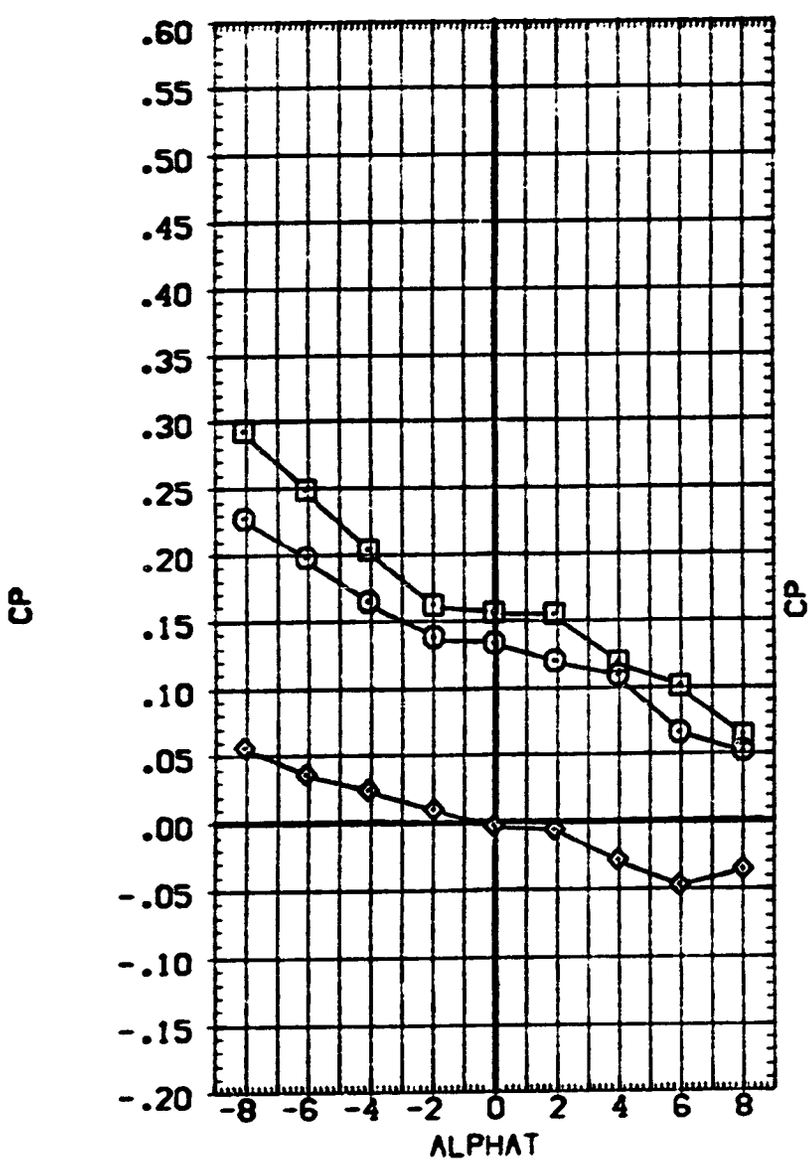
OMS NOZZLE PRESSURES

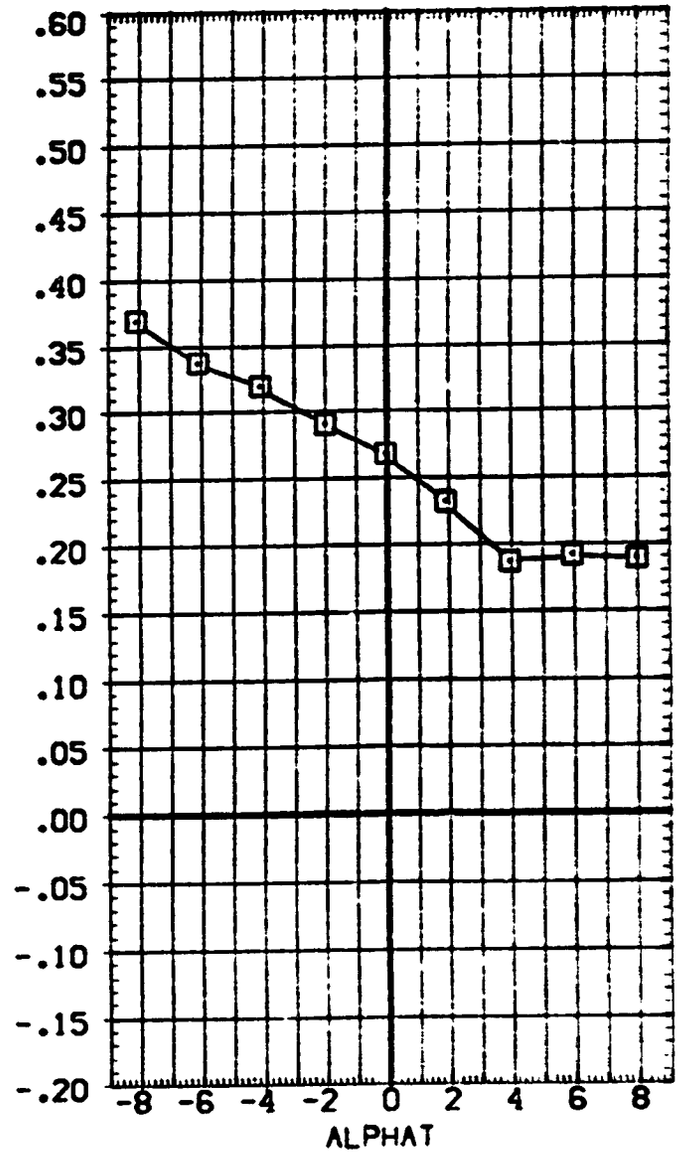
AMES 87-707 IA9 C2A + S3 + T9 OMS NOZZLE (RBNEC1)

SYMBOL	PHI	X/LNM	MACH
○	135.000	.200	2.999
□	180.000	.400	
◇	225.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		





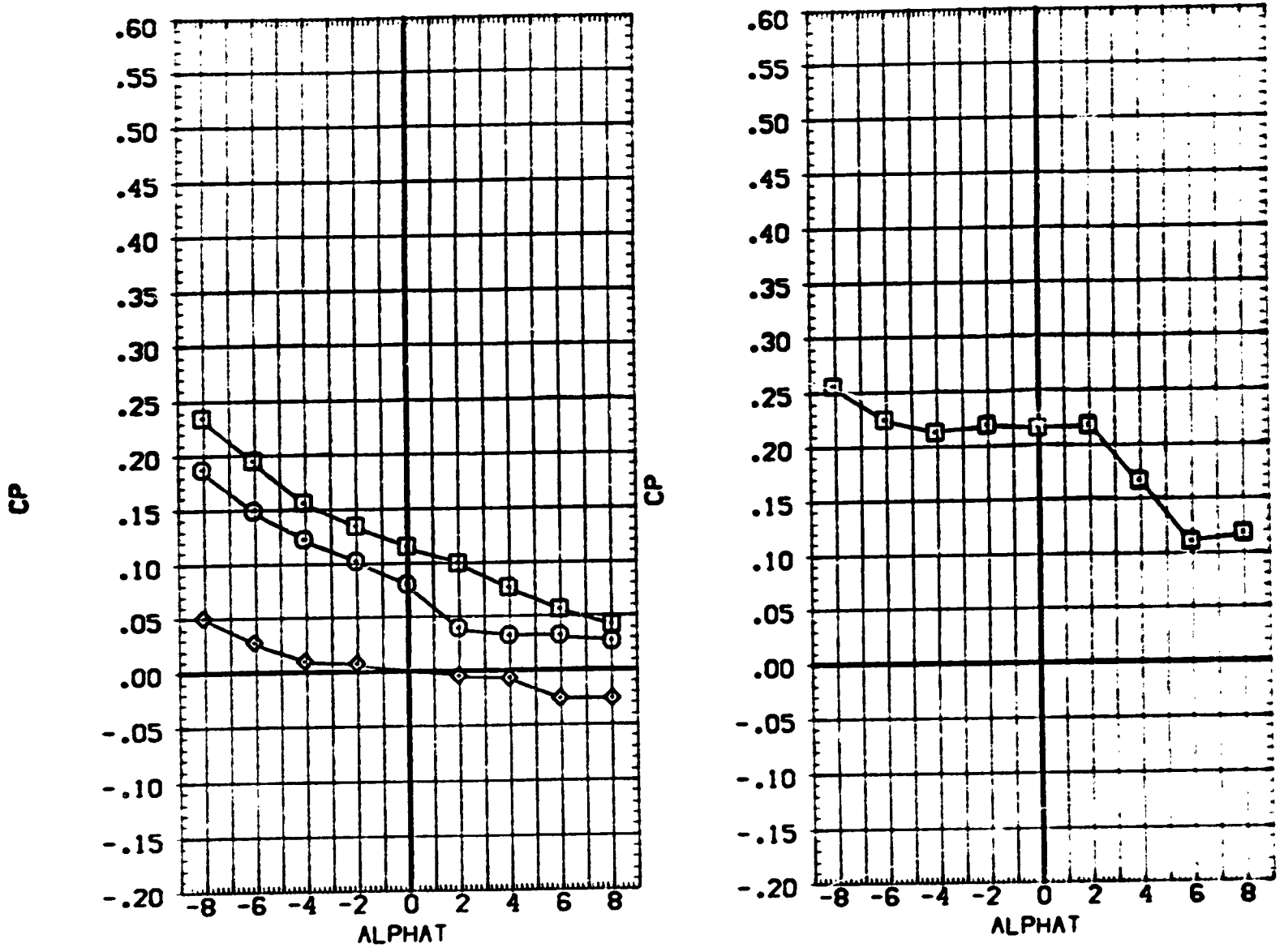
OMS NOZZLE PRESSURES

AMES 87-707 :A9 02A + S3 + T9 OMS NOZZLE (RBNE01)

SYMBOL	PHI	X/L*	MACH
○	135.000	.200	3.502
□	180.000	.400	
◇	225.000		

PARAMETRIC VALUES

BETAT	.000	SPEC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



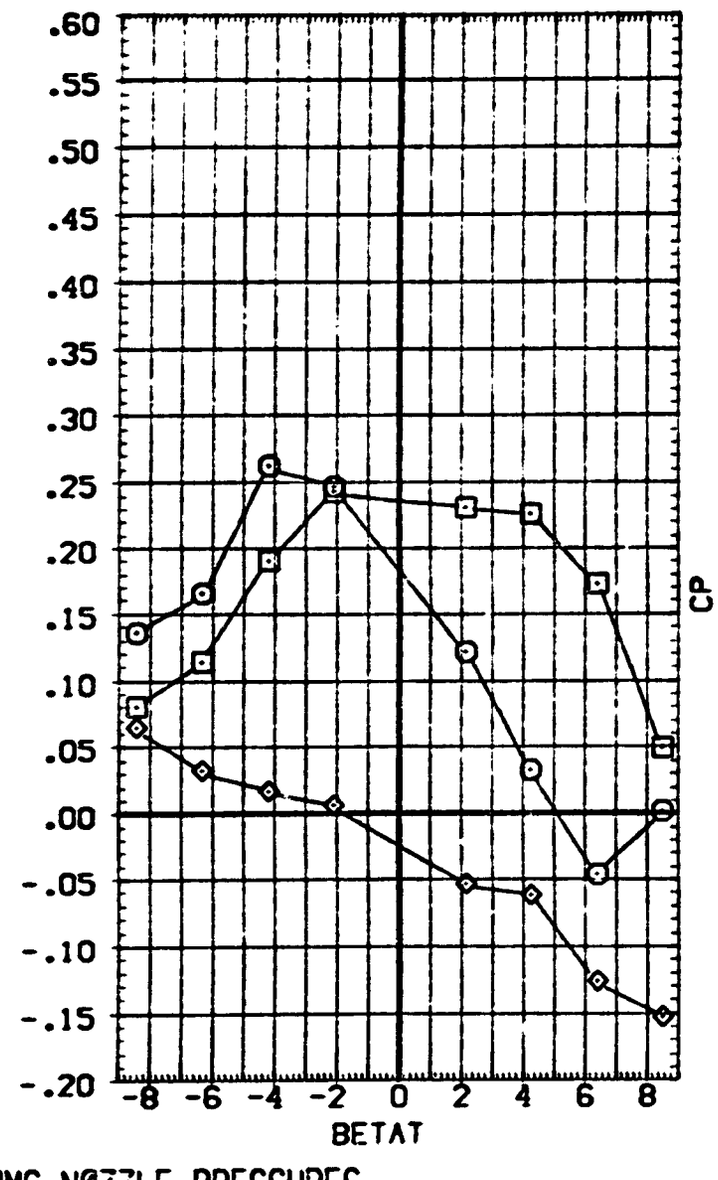
OMS NOZZLE PRESSURES

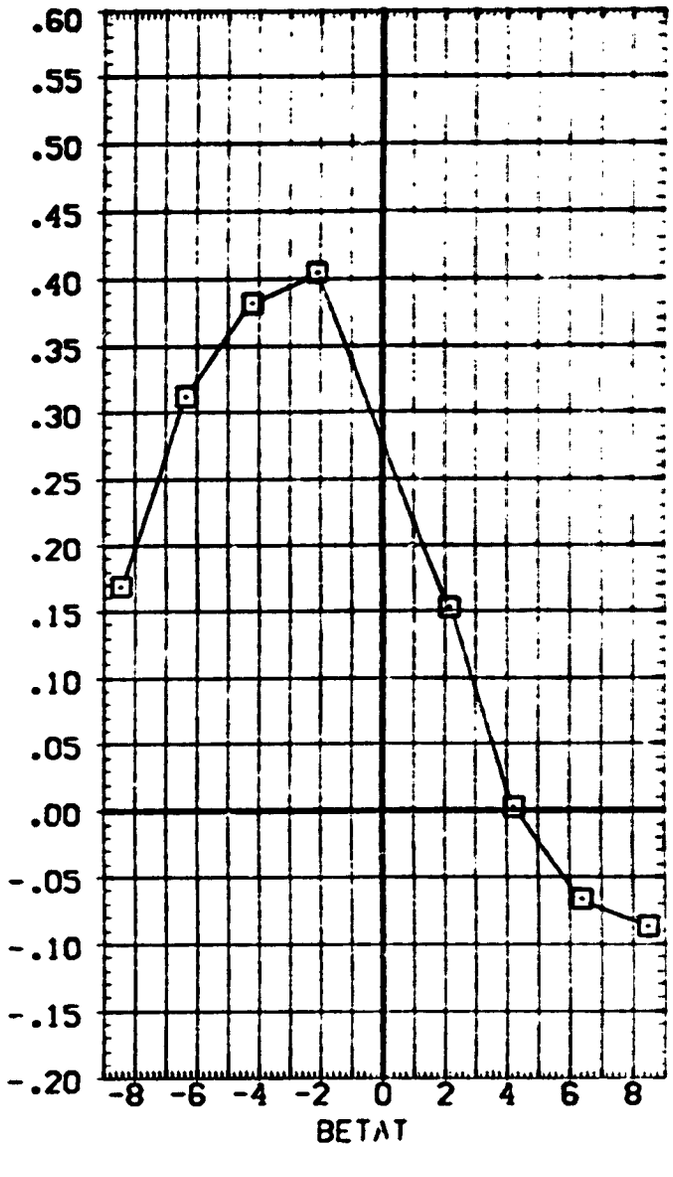
AMES 87-707 :A9 32A + S3 + T9 OMS NOZZLE (RBNEC6)

SYMBOL	PHI	X/L_W	MACH
○	135.000	.200	2.498
□	180.000	.400	
◇	225.000		

PARAMETRIC VALUES

ALPHAT	.000	SPOINC	.500
RUDDER	.000	ELEVON	.000
ROTLR	.000		





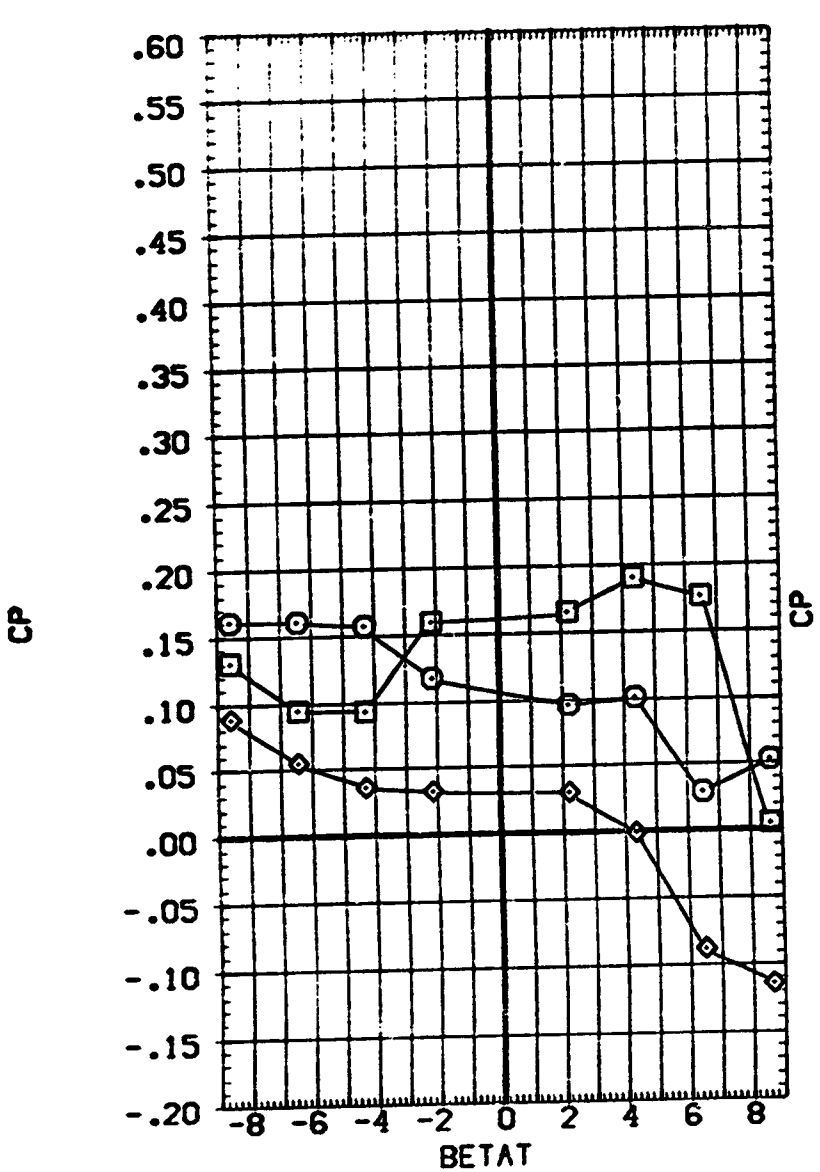
OMS NOZZLE PRESSURES

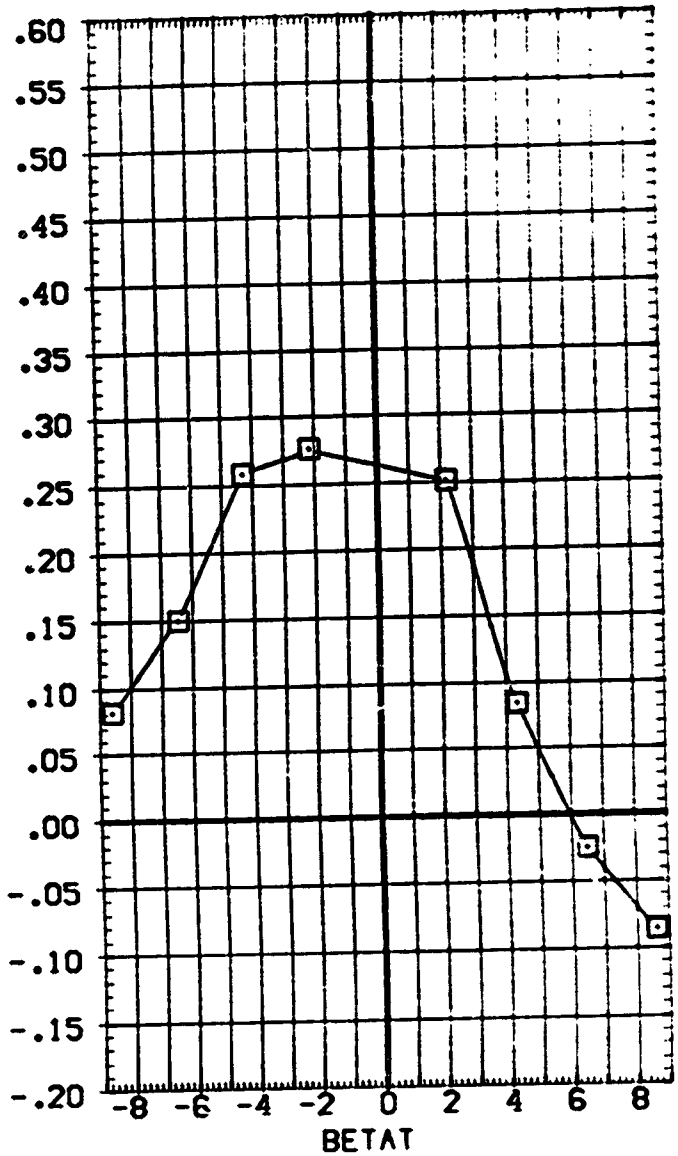
AMES 87-707 IA9 32A + S3 + T9 OMS NOZZLE (RBNEC6)

SYMBOL	PHI	X/LNM	MACH
○	35.000	.200	2.999
□	180.000	.400	
◇	225.000		

PARAMETRIC VALUES

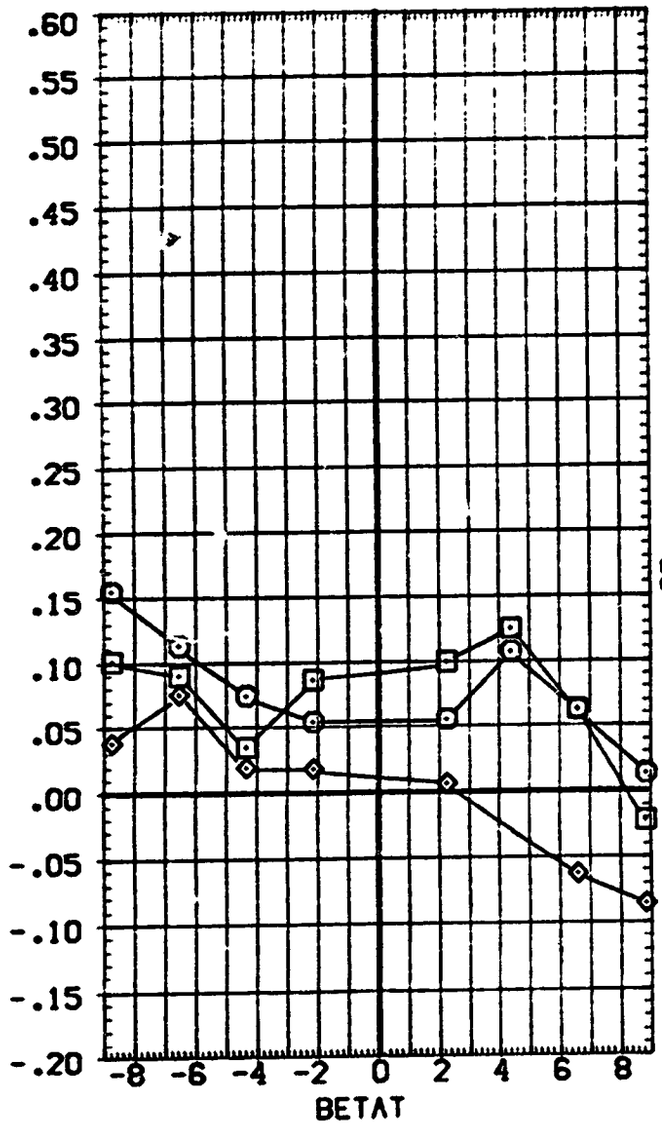
ALPHAT	.000	SREVC	.500
RUDDER	.000	ELEVN	.000
RUDFLR	.000		

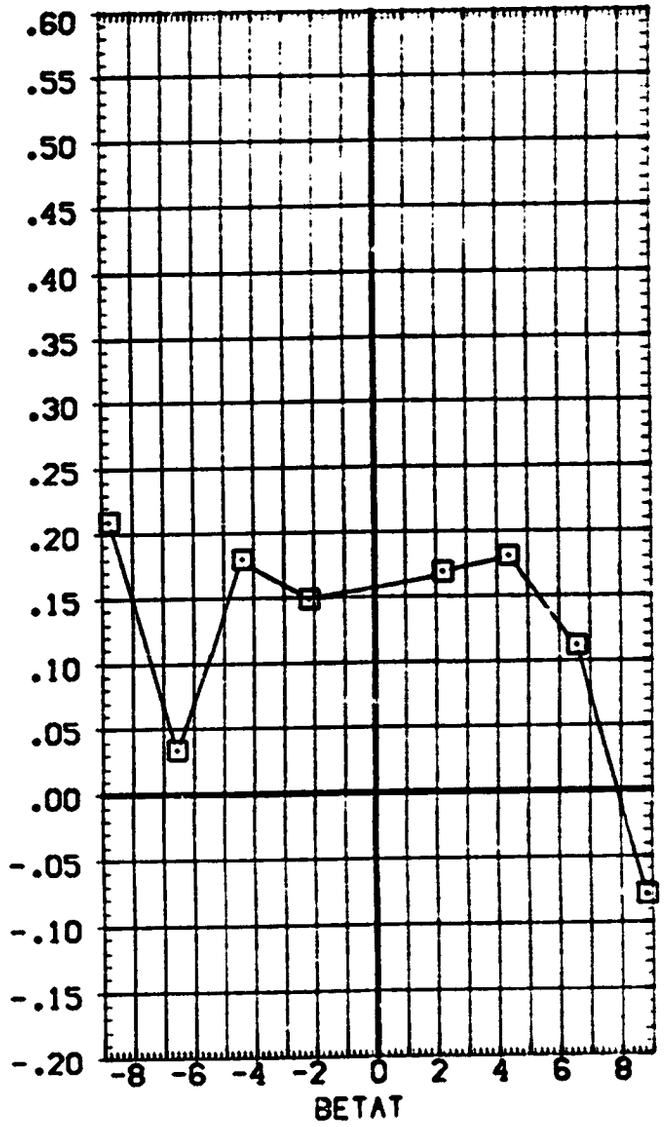




OMS NOZZLE PRESSURES

◇	135.000	.200	3.502
	180.000	.400	
◇	225.000		





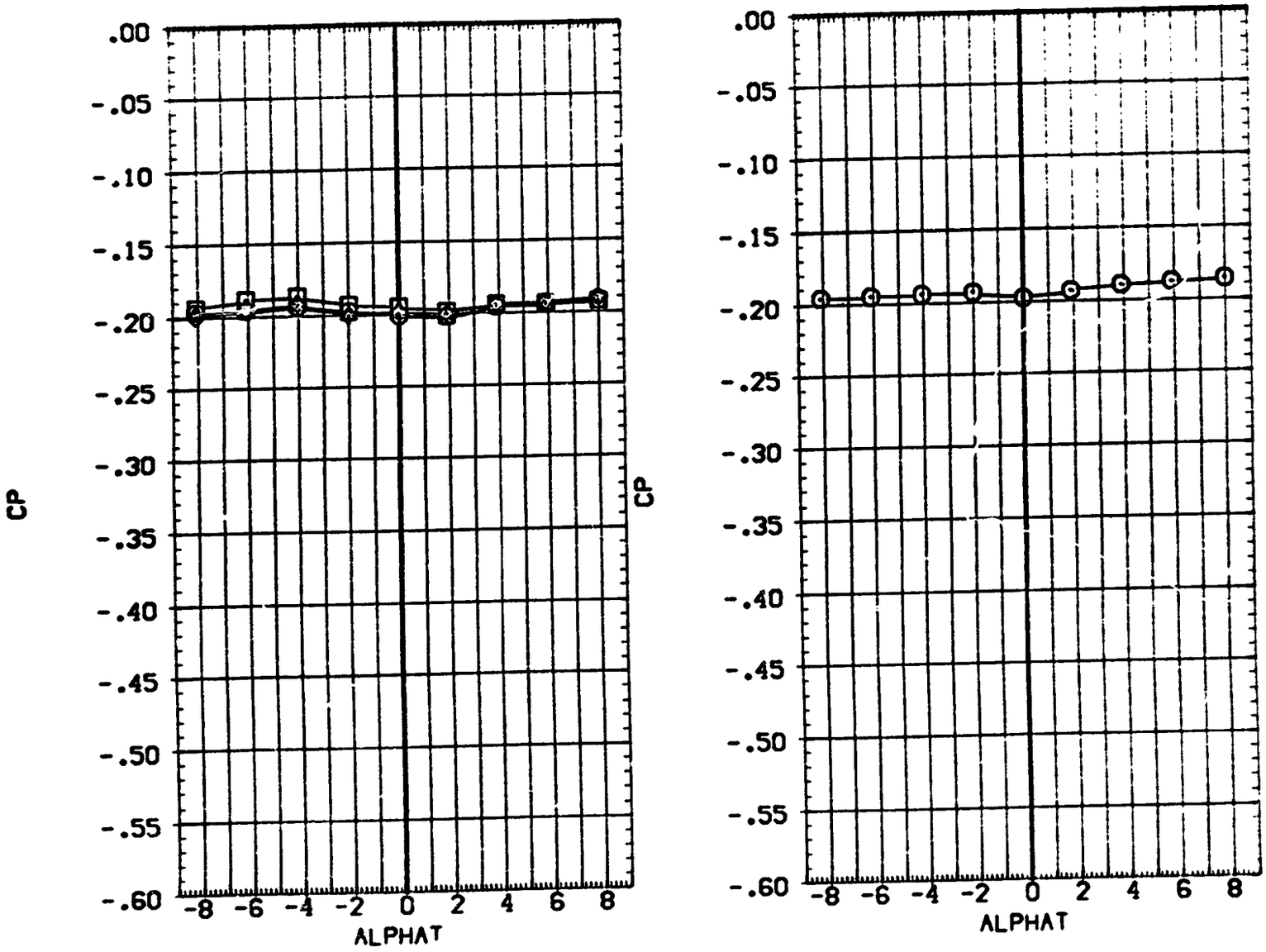
OMS NOZZLE PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 SRM BOOSTER BASE (RBNXBT)

SYMBOL	PHI	X/LS	MACH
○	.000	.985	2.498
⊠	90.000	1.000	
◇	180.000		
△	270.000		

PARAMETRIC VALUES

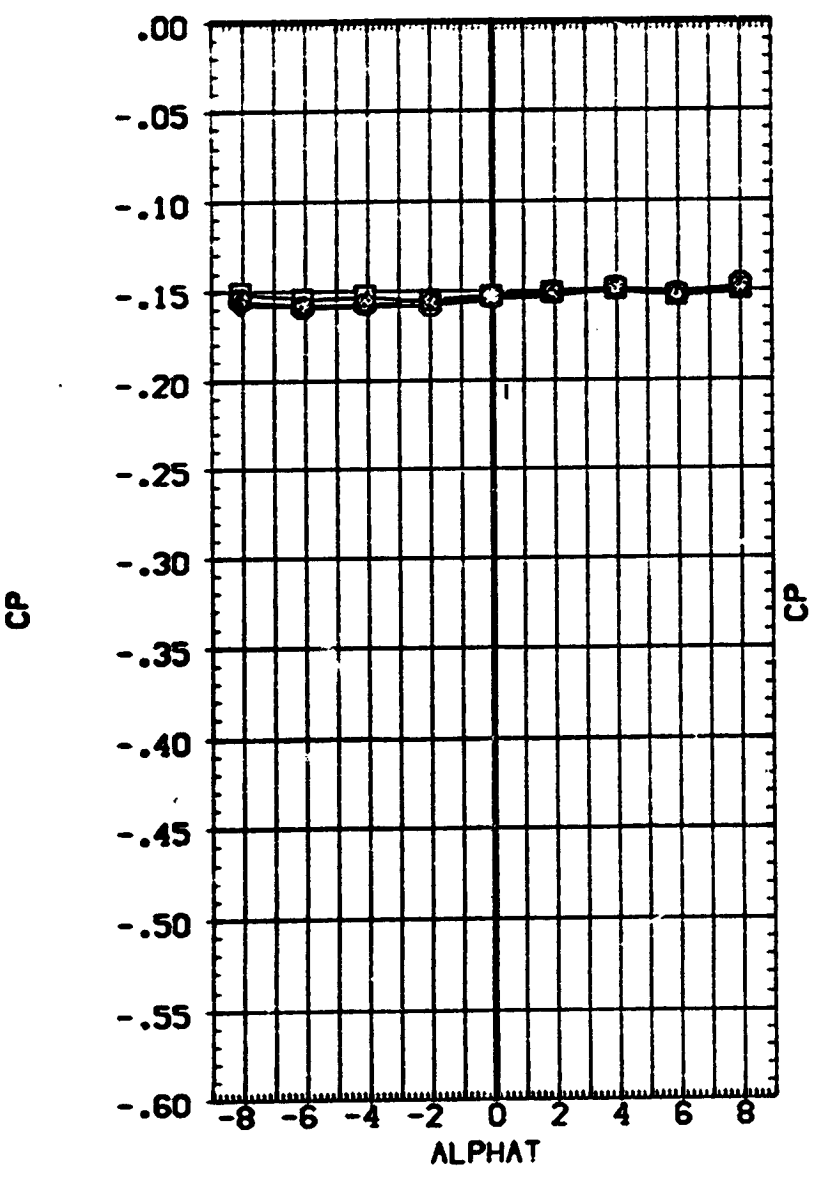
BETAT	.000	SRB:NC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

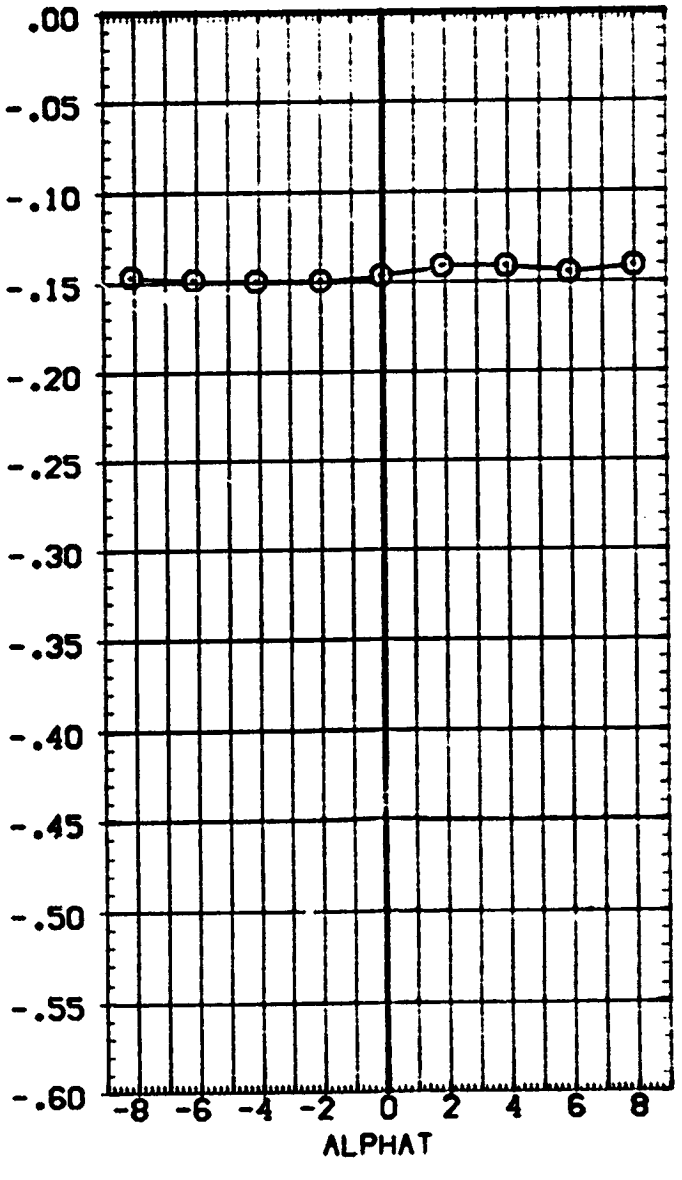


SRM BOOSTER BASE PRESSURES

SYMBOL	PHI	X/LS	MACH
○	.000	.985	2.999
□	90.000	1.000	
◇	180.000		
△	270.000		

PARAMETRIC VALUES			
BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		





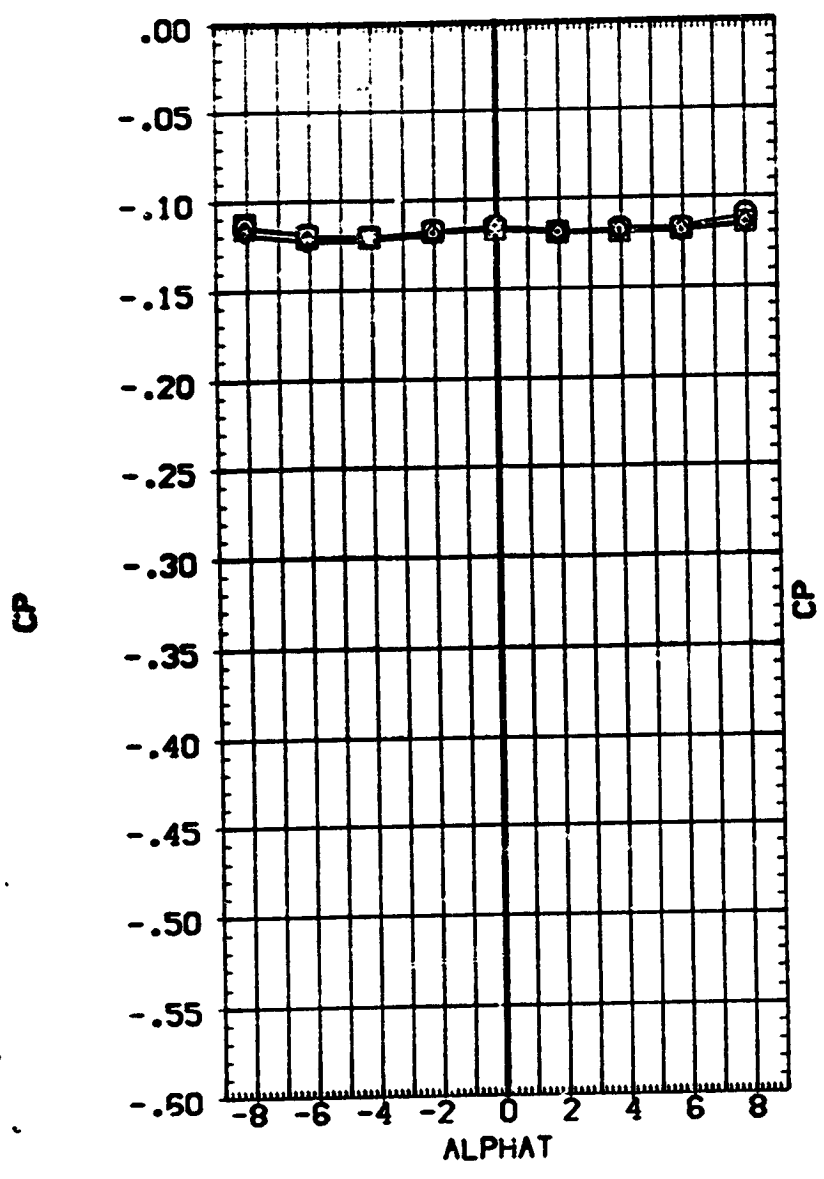
SRM BOOSTER BASE PRESSURES

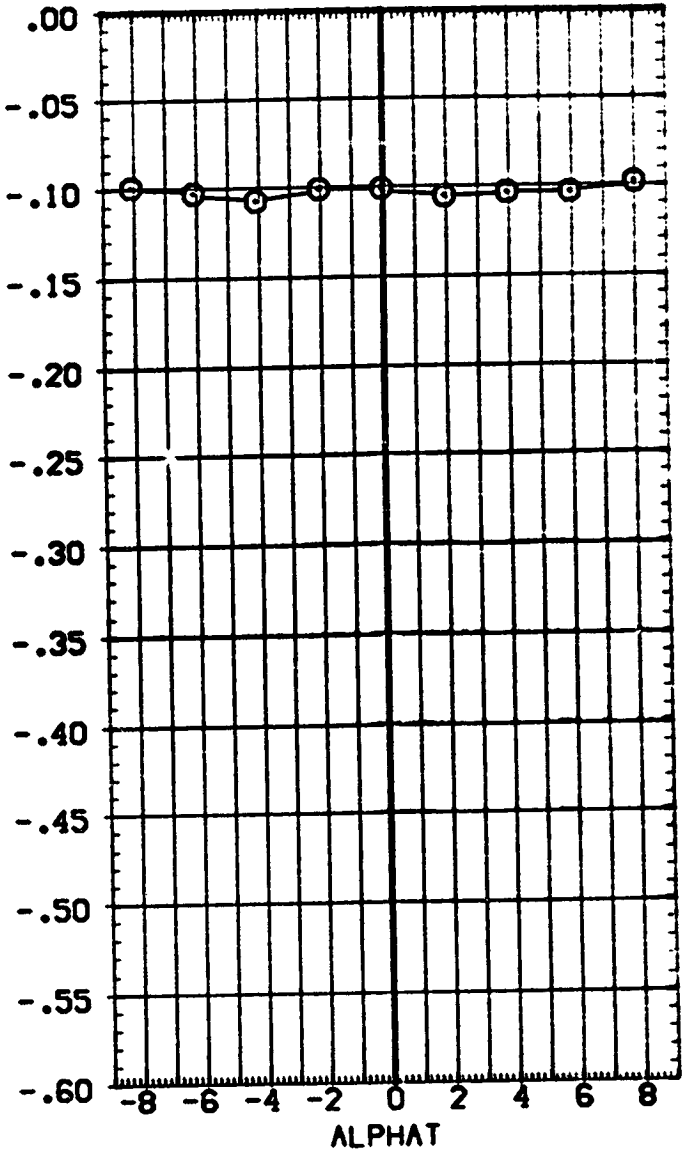
AMES 87-707 IA9 02A + S3 + T9 SRM BOOSTER BASE (RBNX01)

SYMBOL	PHI	X/LS	MACH
○	.000	.985	3.502
□	90.000	1.000	
◇	180.000		
△	270.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		





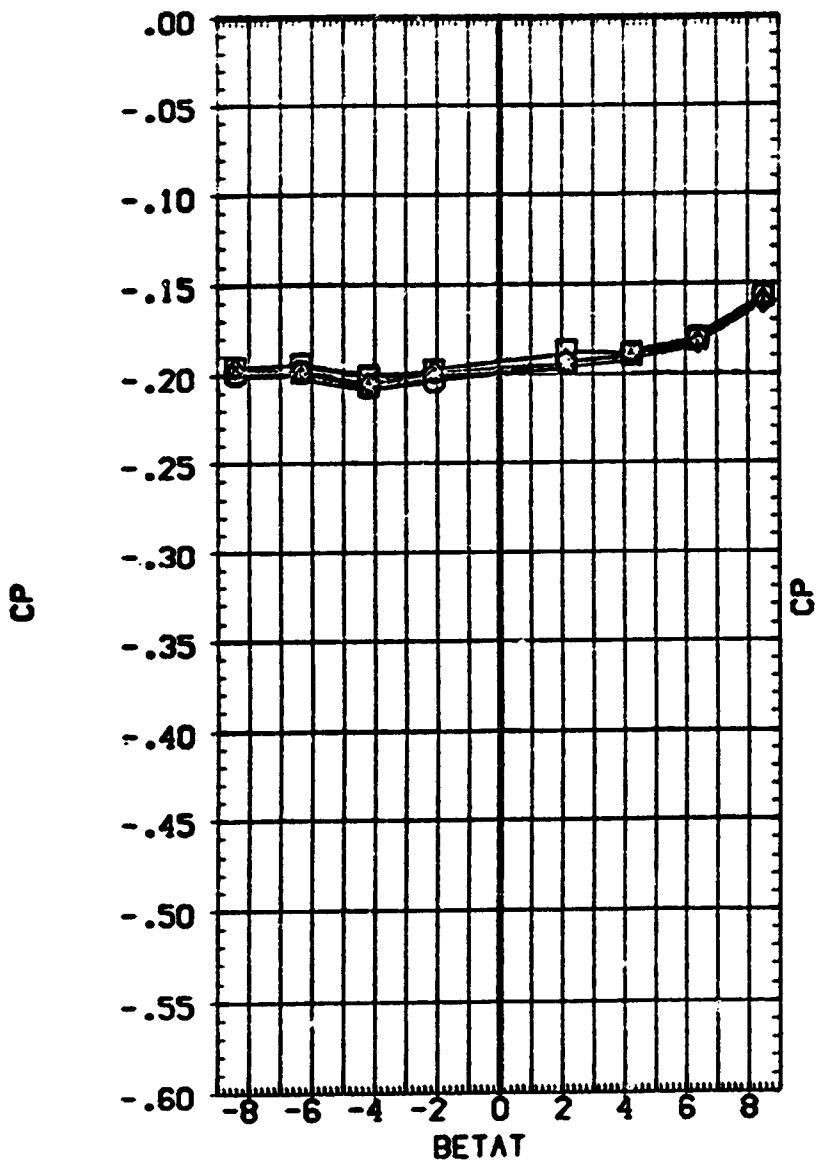
SRM BOOSTER BASE PRESSURES

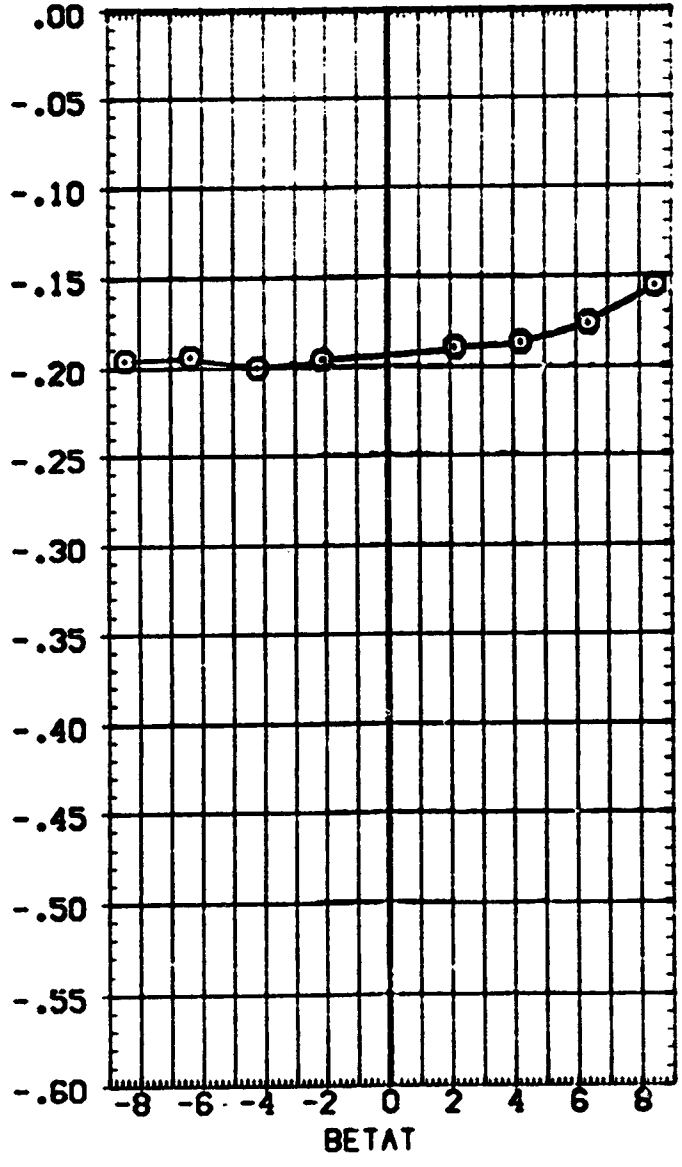
AMES 87-707 IA9 C2A + S3 + T9 SRM BOOSTER BASE (RBNXC6)

SYMBOL	PHI	X/LS	MACH
□	.000	.985	2.498
○	90.000	1.000	
◇	180.000		
△	270.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROLLR	.000		





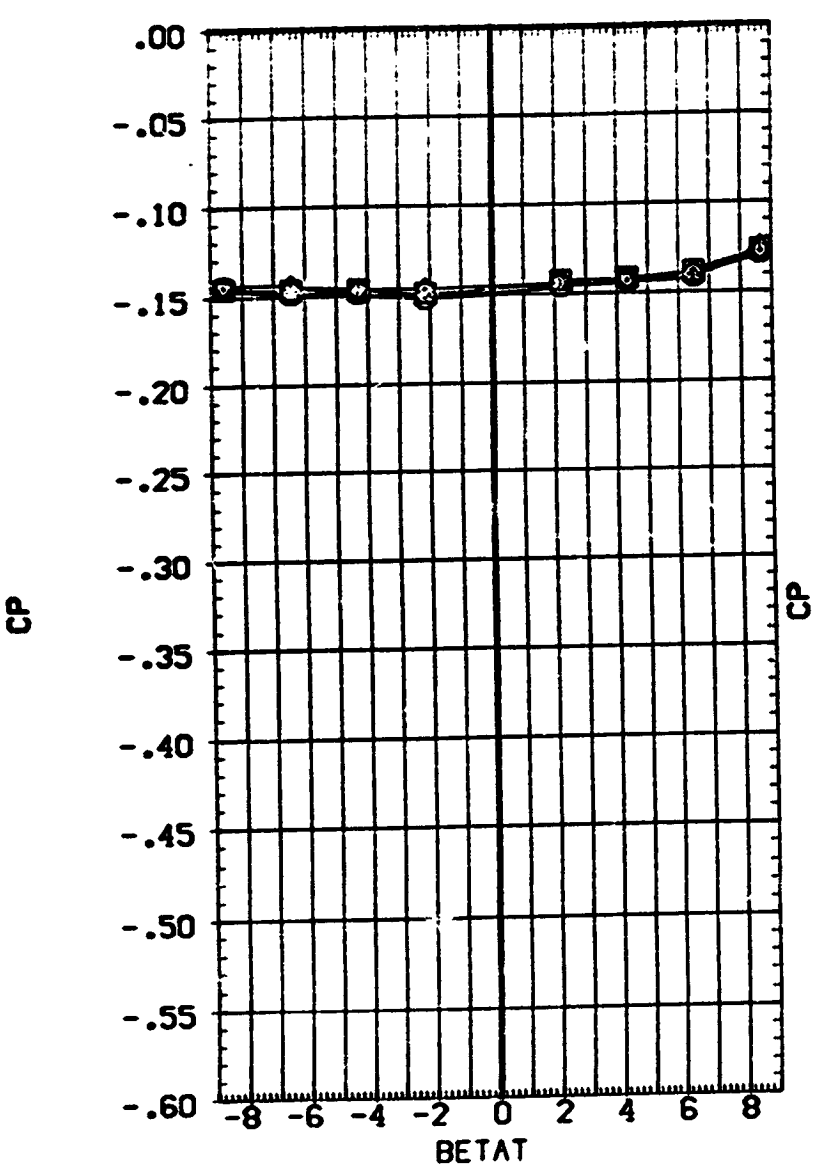
SRM BOOSTER BASE PRESSURES

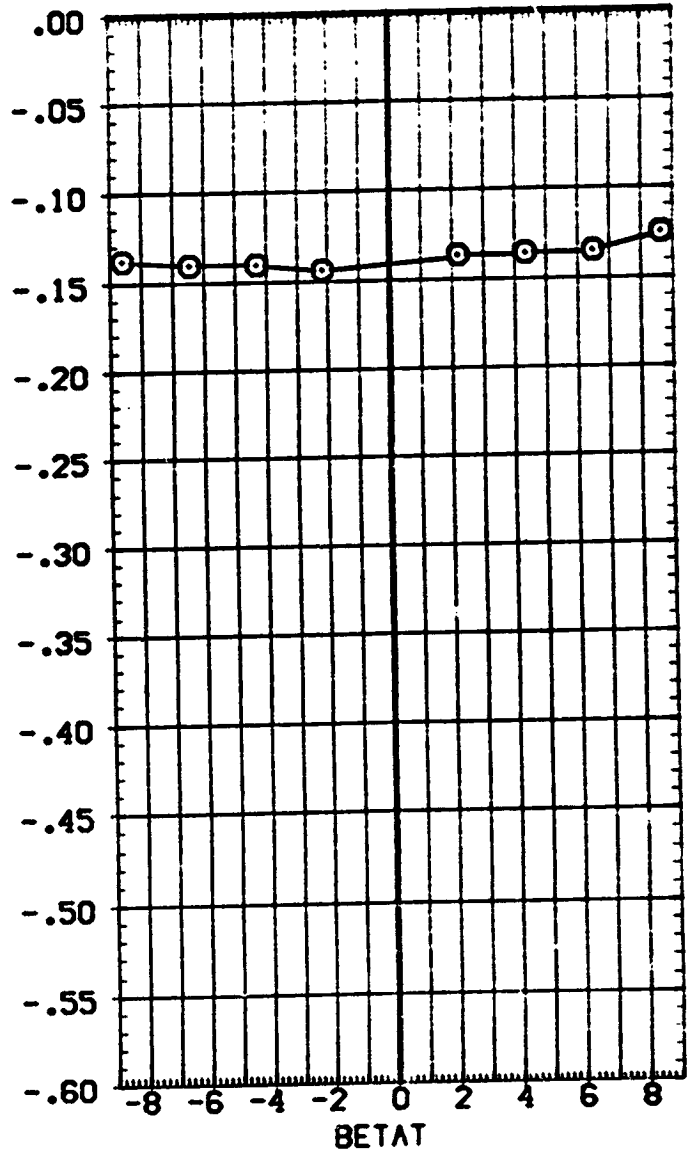
AMES 87-707 IA9 C2A + S3 + T9 SRM BOOSTER BASE (RB\XC6)

SYMBOL	PHI	X/LS	MACH
○	.000	.985	2.999
□	90.000	1.000	
◇	180.000		
△	270.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
ROLLR	.000		





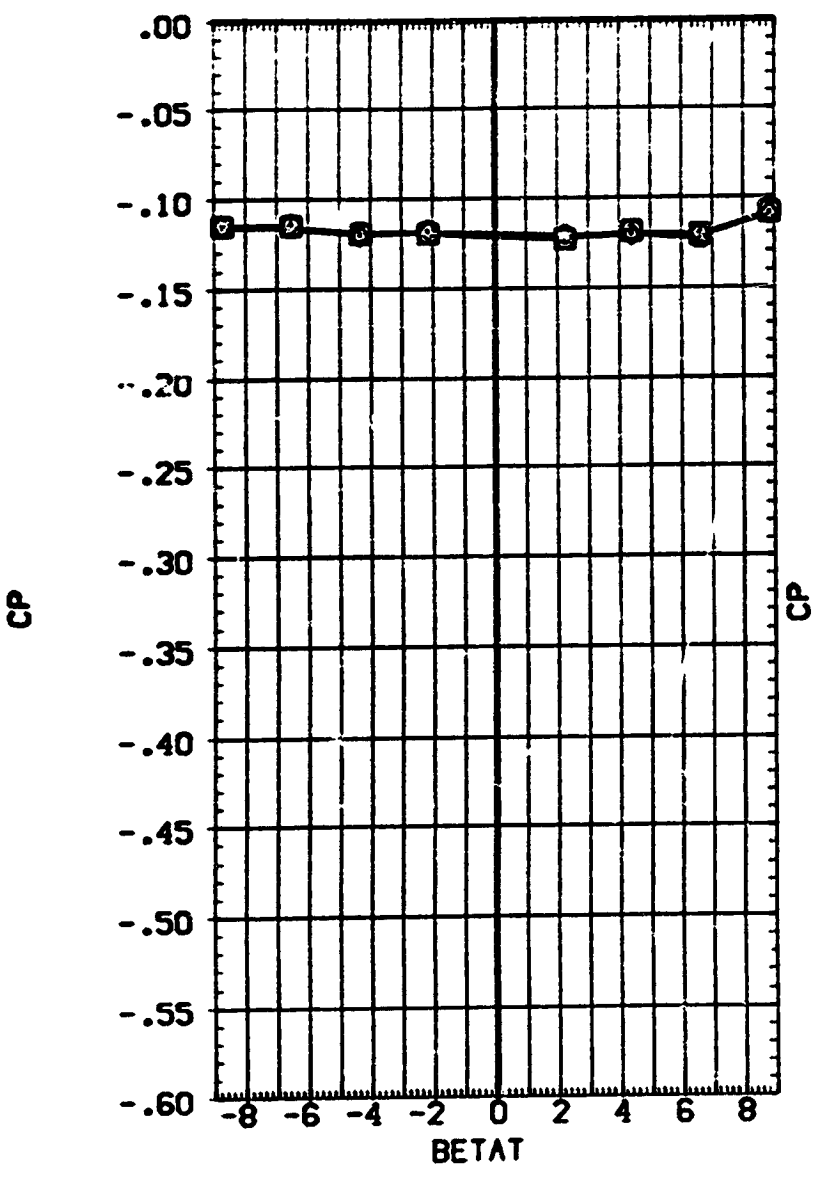
SRM BOOSTER BASE PRESSURES

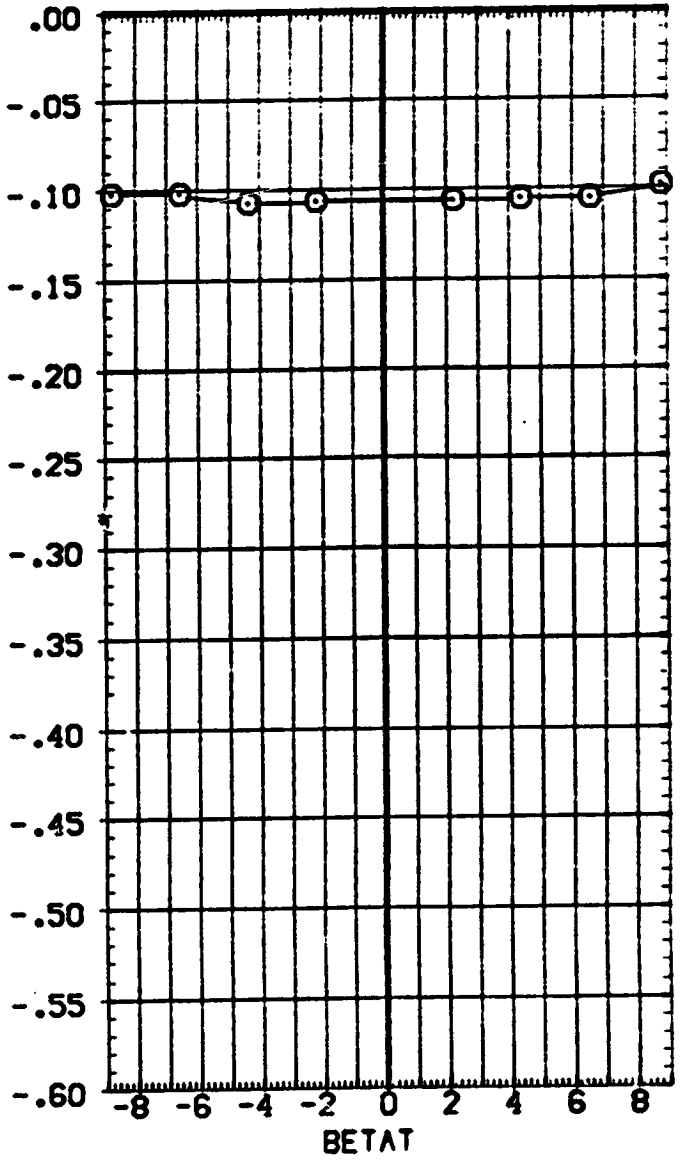
AMES 87-707 (A9 C2A + S3 + T9 SRM BOOSTER BASE (RB\XC6)

SYMBOL	PHI	X/LS	MACH
○	.000	.985	3.502
□	90.000	1.000	
◇	180.000		
△	270.000		

PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		





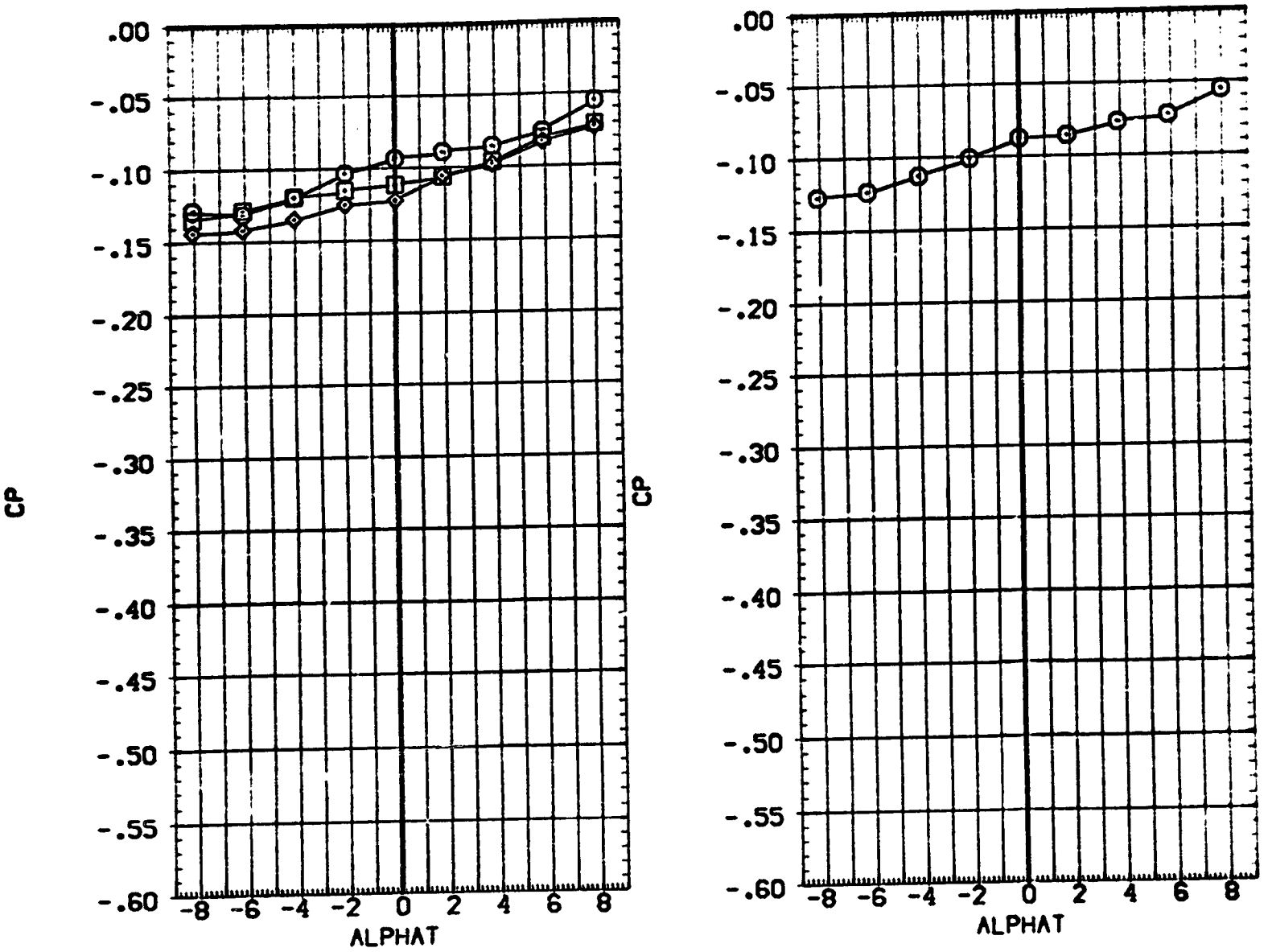
SRM BOOSTER BASE PRESSURES

AXES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK BASE(RBNY01)

SYMBOL	PHI	X/L	MACH
○	.000	.977	2.498
□	90.000	1.000	
◇	180.000		

PARAMETRIC VALUES

BETAT	.000	DRGINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



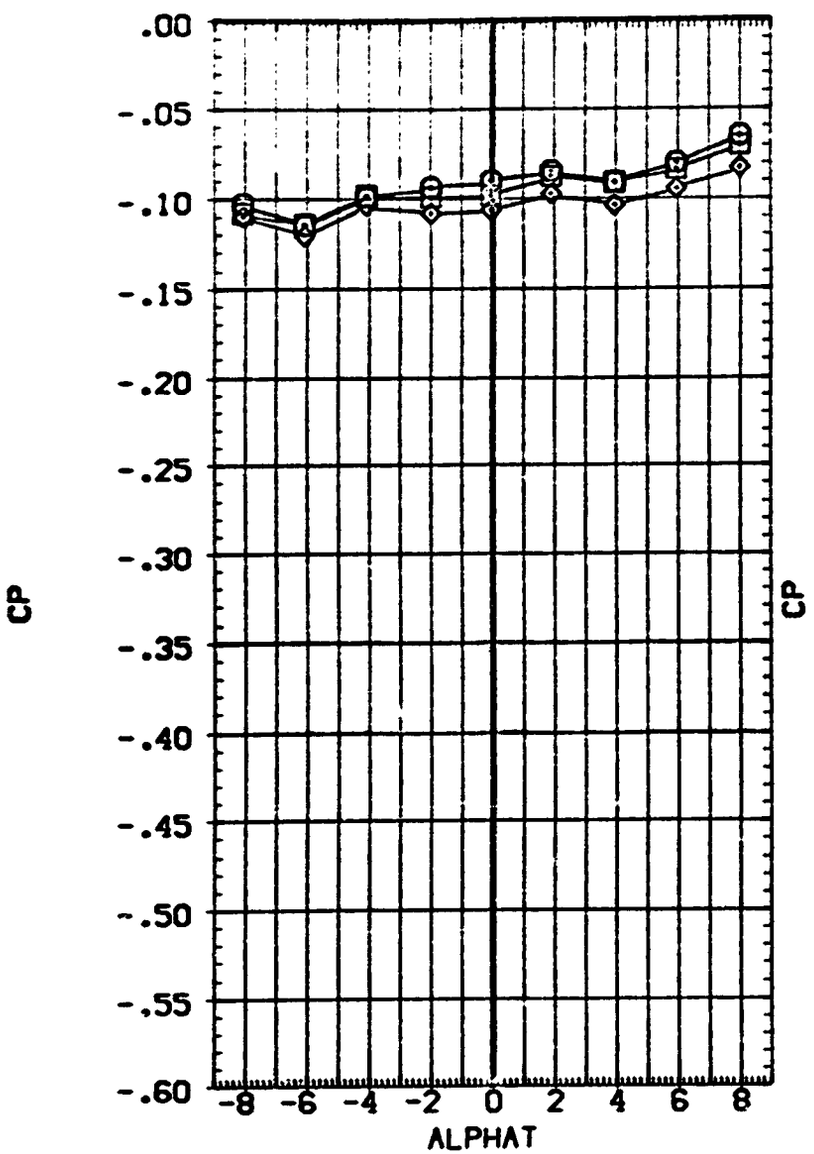
EXTERNAL TANK BASE PRESSURES

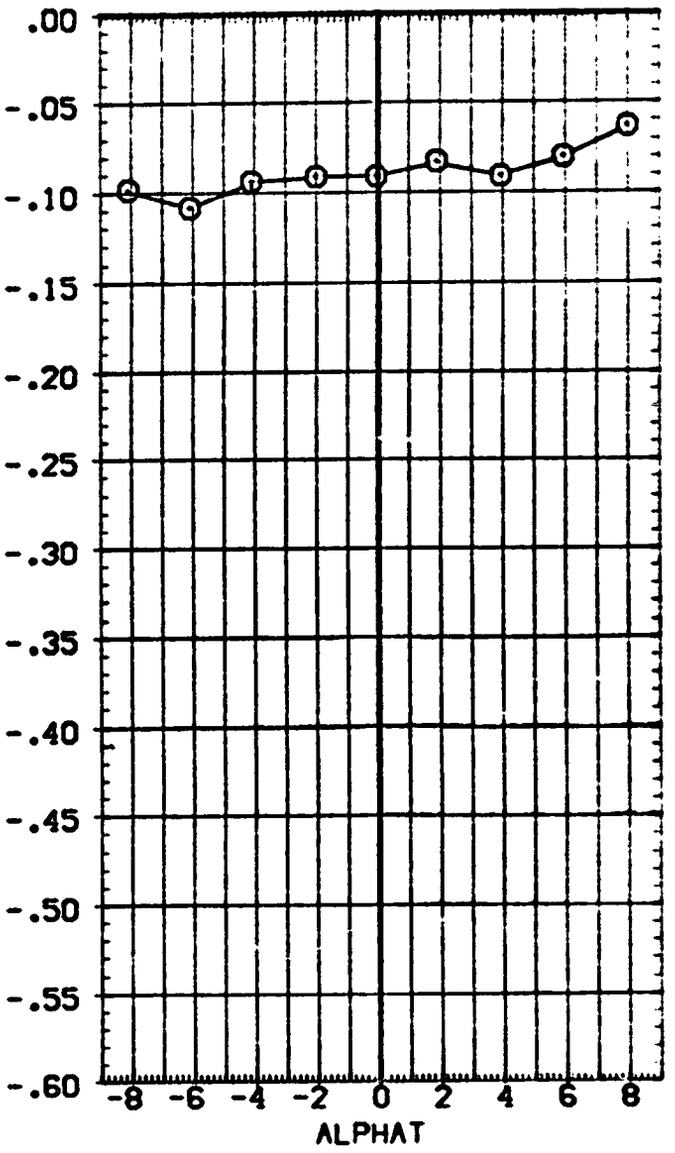
AMES 87-707 IA9 C2A + S3 + T9 EXTERNAL TANK BASE (RBNYC1)

SYMBOL	PHI	X/LT	MACH
○	.000	.977	2.999
□	90.000	1.000	
◇	180.000		

PARAMETRIC VALUES

BETAT	.000	DRGINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		





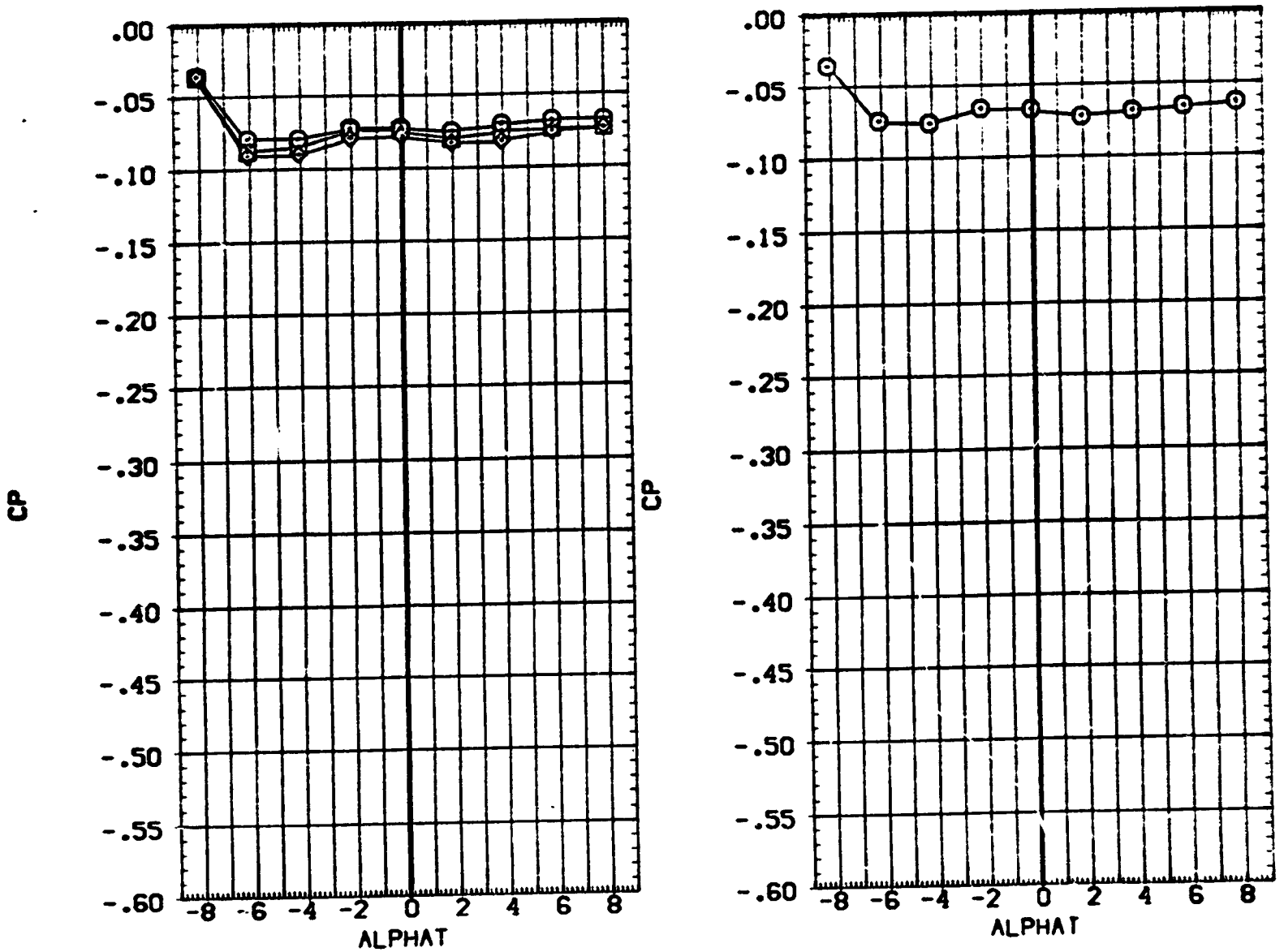
EXTERNAL TANK BASE PRESSURES

AMES 87-707 IA9 C2A + S3 + T9 EXTERNAL TANK BASE (RBNYC1)

SYMBOL	PHI	X/LT	MACH
○	.000	.977	3.502
□	90.000	1.000	
◇	180.000		

PARAMETRIC VALUES

BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

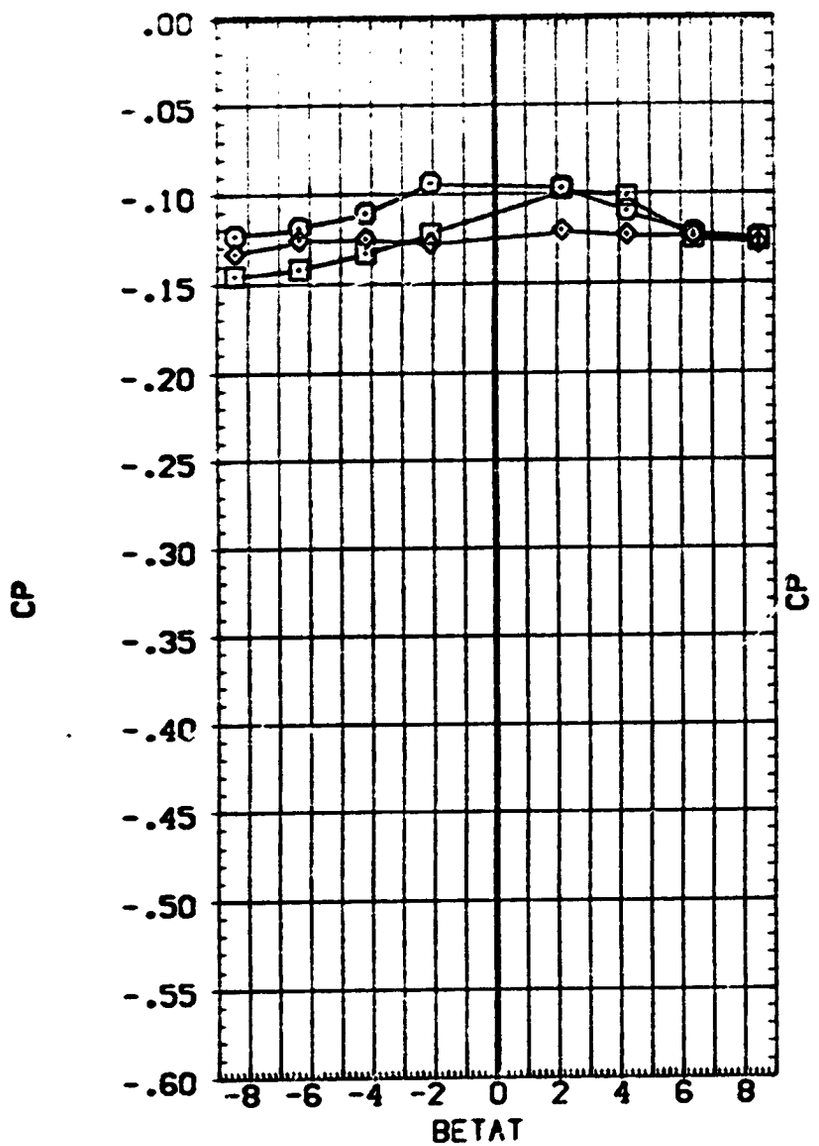


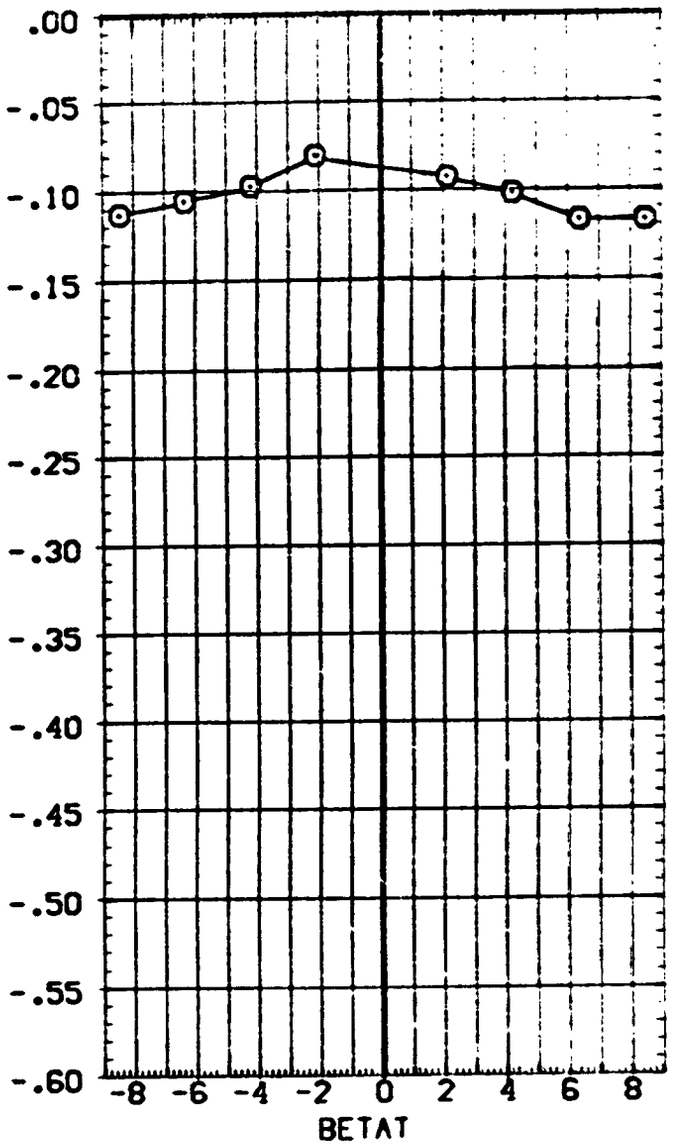
EXTERNAL TANK BASE PRESSURES

S	PHI	M/T	MACH
	.000	.977	2.498
	90.000	1.000	
	180.000		

PARAMETRIC VALUES

ALPHAT	.000	[illegible]	.500
RUDDER	.000	[illegible]	.000
RUDFLR	.000		





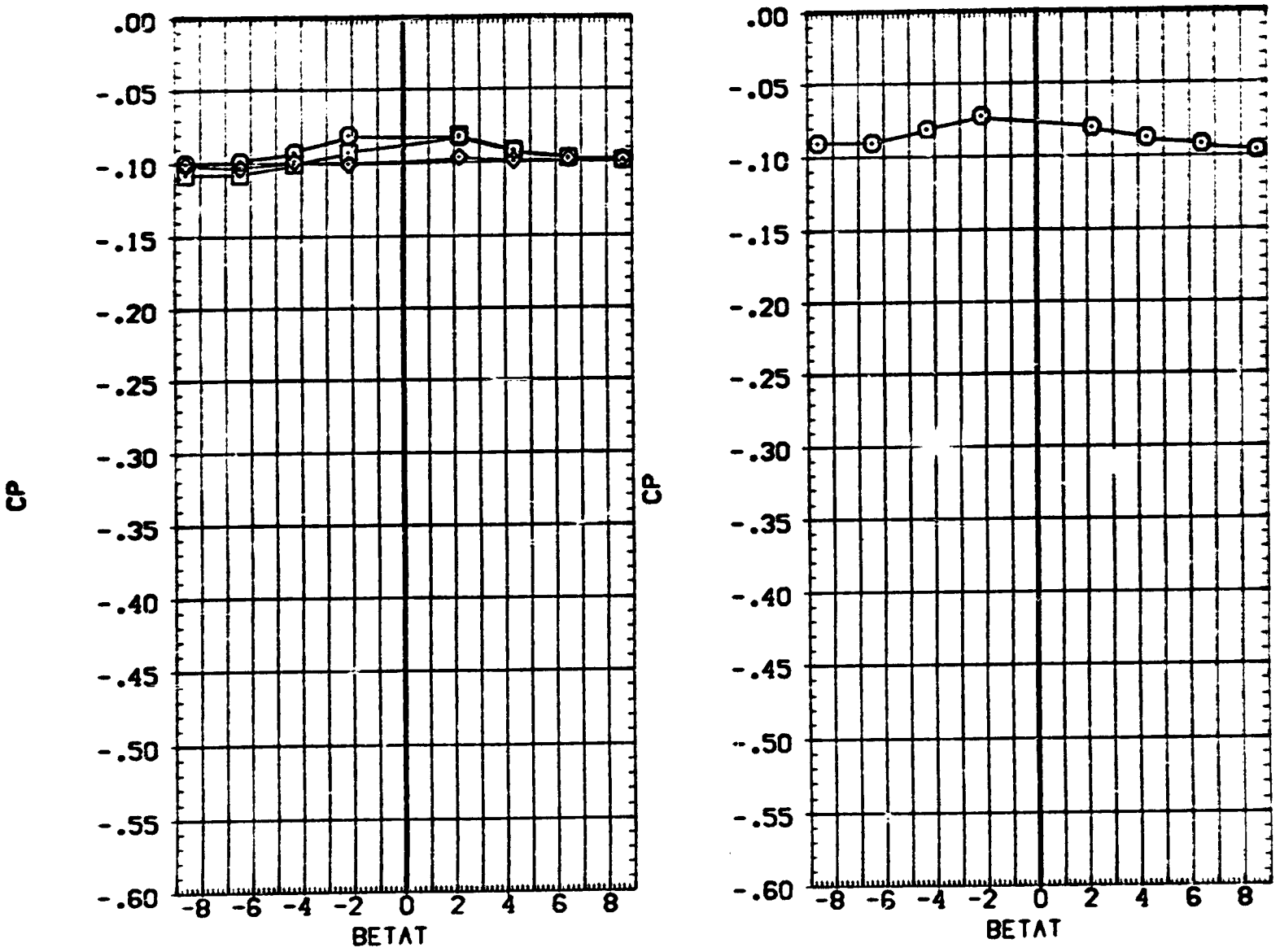
EXTERNAL TANK BASE PRESSURES

AMES 87-707 IA9 02A + S3 + T9 EXTERNAL TANK BASE (RBNY06)

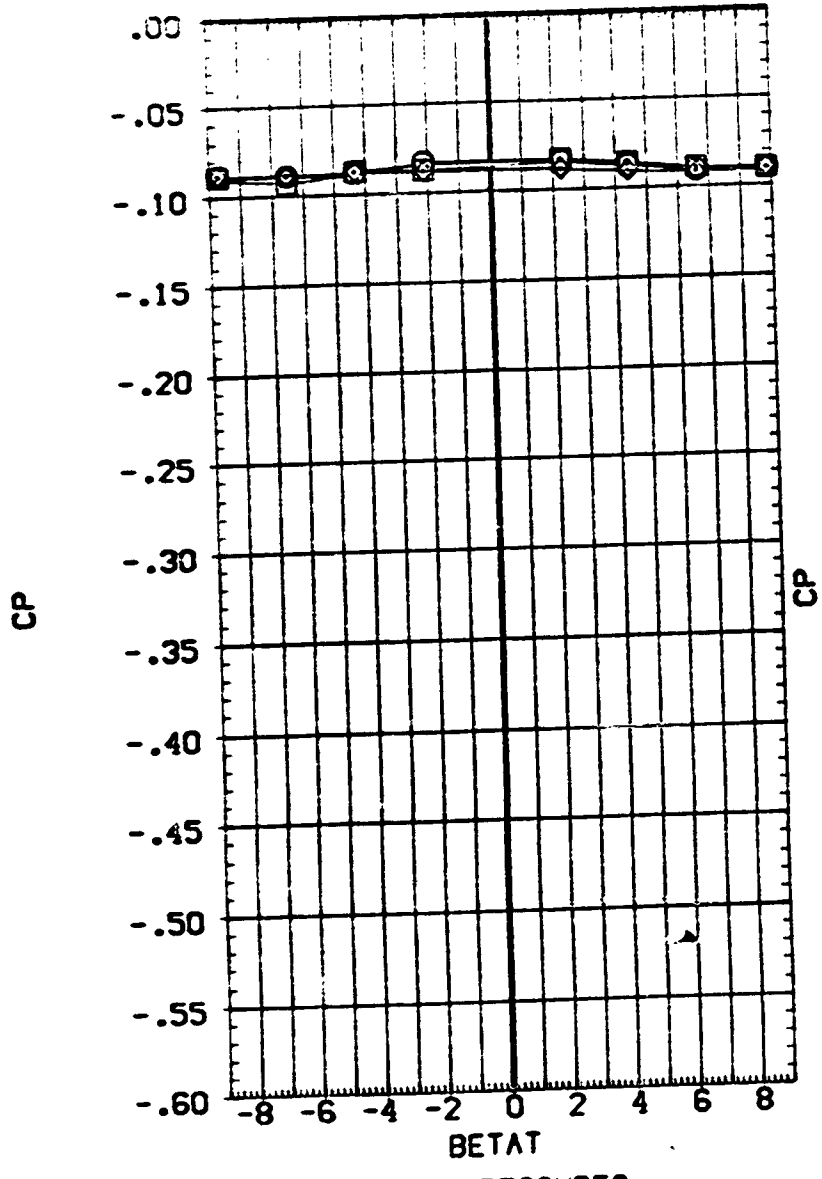
SYMBOL	PHI	X/L	MACH
□	.000	.977	2.999
○	90.000	1.000	
◇	180.000		

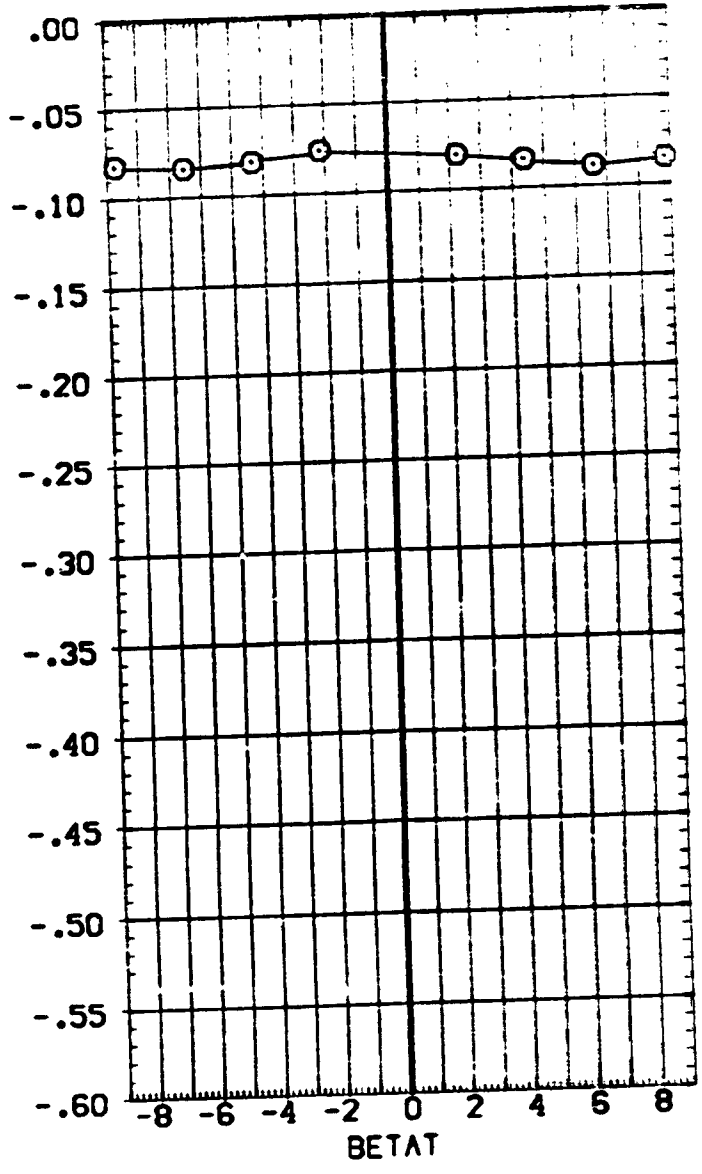
PARAMETRIC VALUES

ALPHAT	.000	SPOINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		



EXTERNAL TANK BASE PRESSURES





EXTERNAL TANK BASE PRESSURES